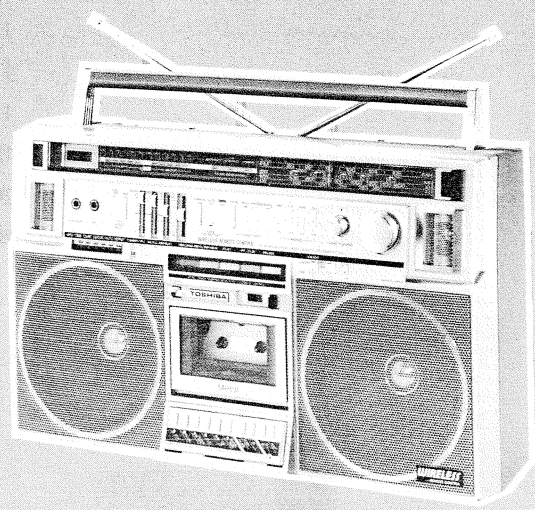
TOSHIBA

STEREO RADIO CASSETTE RECORDER

RT-S932



SPECIFICATIONS

Cassette Tape Used:	Normal: C-30, C-60, C-90, C-120 Chrome: C-45, C-60, C-90 Metal: C-46, C-60, C-90
Tape Speed:	4.8 cm/sec.
Track System:	Four-track two-channel stereophonic
Recording System:	AC bias (85 kHz)
Erasing System:	AC erasing
Frequency Response:	Normal: 50 Hz to 12 kHz Metal: 50 Hz to 15 kHz
Receiving Frequency:	FM: 88 MHz to 108 MHz SW: 5.9 MHz to 15.4 MHz MW: 525 kHz to 1605 kHz LW: 145 kHz to 270 kHz
Intermediate Frequency:	FM: 10.7 MHz LW, MW, SW: 460 kHz
Antenna:	FM, SW: telescopic antennas MW, LW: ferrite-core antenna
Speakers:	Woofer (180 mm dia. dynamic) x 2 Tweeter (40 mm dia. dynamic) x 2
Jacks:	[MIC] jack x 2, Impedance 200 ohm to 2k ohm, ϕ3.5 mm [MIXING MIC] jack x 1, impedance 200 ohm to 2k ohm, ϕ6.3 mm [AUX/PHONO] jack x 2, Impedance 20k ohm, pin-type [LINE OUT] jack x 2, Impedance 4.7k ohm, pin-type DIN jack, Output Inpedance 10k ohm Input Inpedance 30k ohm [SPEAKER] jack x 2, Impedance 3.2 ohm to 8 ohm, ϕ3.5 mm [PHONES] jack headphone, ϕ6.3 mm
Power Supply:	AC 220 to 240V, 50 Hz DC 13.5V (SUM-1 "D" size x 9) External DC power [DC 12-15V] jack, (5.0 mm dia.) centre pin "Positive" pole.
Power Consumption:	25W
Dimensions:	520(W) x 307(H) x 172(D) mm
Weight:	6.5 kg (without batteries)

Specifications are subject to change without notice.

TE, TU, IT

CONTENTS

1. OPERATING CONTROLS 3
2. DISASSEMBLY INSTRUCTIONS . . . . . 4 to 5
3. MOTOR PULLEY REPLACEMENT 6
4. HANDLE REMOVAL 6
5. DIAL CORD RESTRINGING 6
6. BLOCK DIAGRAM 7
7. ADJUSTMENTS INSTRUCTIONS . . . . . 8 to 11
8. ELECTRICAL PARTS LOCATIONS (MAIN) 12
9. SCHEMATIC DIAGRAM (MAIN) 13
10. ELECTRICAL PARTS LOCATIONS (CONTROLS) 14
11. SCHEMATIC DIAGRAM (CONTROLS) 15

12-1. EXPLODED VIEW MECHANISM (UPPER) 16
12-2. EXPLODED VIEW MECHANISM (LOWER) 17
12-3. EXPLODED VIEW (MECHANISM) PARTS LIST 18
13-1. EXPLODED VIEW CABINET 19
13-2. EXPLODED VIEW (CABINET) PARTS LIST 20
14. PARTS LIST . . . . . 21 to 28

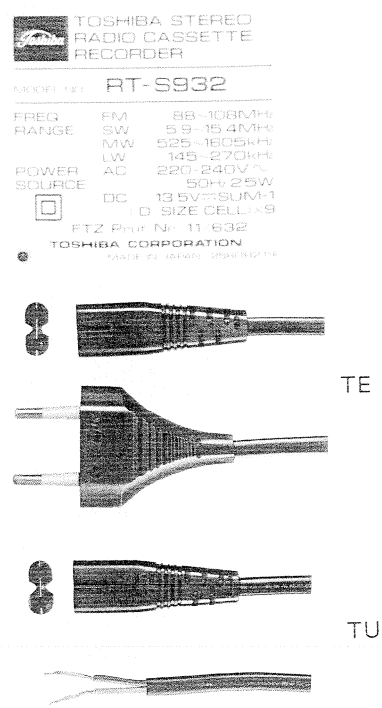
POWER SUPPLY

■ AC POWER

This unit operates on household current of 220-240V AC. Connect one end of the power cord to [AC POWER] socket and the other end to an AC outlet.

■ Mounting Battery Cells into the Remote Control Unit

The wireless remote control unit uses three alkaline manganese (LR44) or silver oxide (SR44) battery cells. Always leave them in the control unit whether the recorder is powered by its built-in battery or from AC line. When any of the control buttons on the remote control unit is pressed, the button operation indicator comes on. If this indicator does not come on or the recorder is not controlled properly, check the batteries.



1. OPERATING CONTROLS

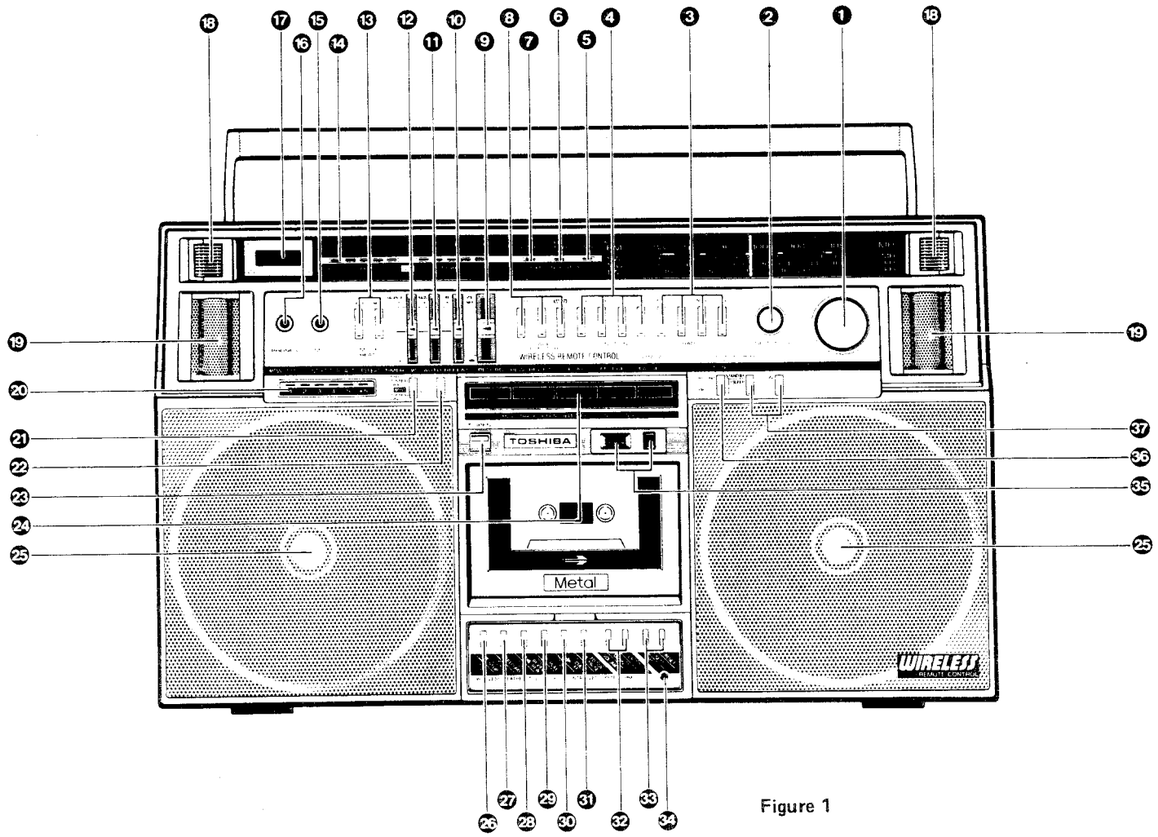


Figure 1

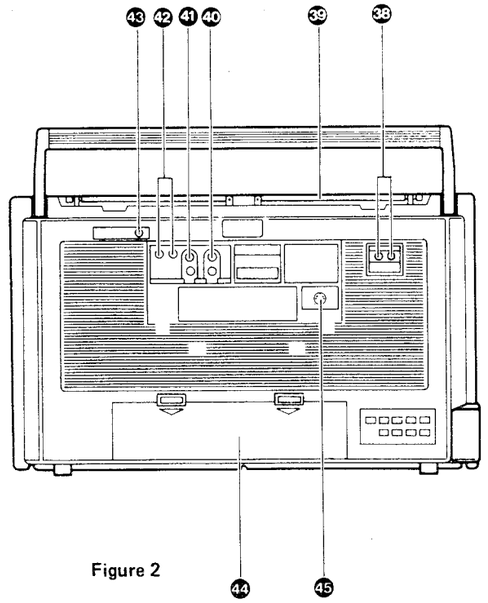


Figure 2

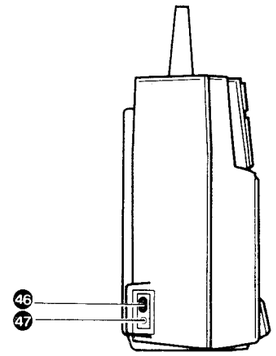


Figure 3

❶ Tuning knob
❷ [FINE TUNING] Control
❸ [RADIO] Selector: FM/LW/MW/SW
❹ [FUNCTION] Selector: TAPE/AUX/PHONO/RADIO
❺ [TUNING] Indicator
❻ [FM STEREO] Indicator
❼ [BATTERY] Indicator
❽ [TAPE SELECTOR] Selector: NORMAL/CrO_2/ Metal
❾ [VOLUME] Control
❿ TREBLE Control
⓫ Bass Control
⓬ [BALANCE] Control
⓭ [MODE/BEAT] Selector: MONO/STEREO/STEREO WIDE
⓮ Level Meters
⓯ [MIC] Jack
⓰ [PHONES] Jack
⓱ Infrared Sensor Window
⓲ Built-in Microphones
⓳ Tweeter Speakers
⓴ MTSS/TIME COUNT EDITOR/AUTO REPEAT Indicators
㉑ [TIMER/MTSS] Button: ⊏MR/TIMER OFF – ⊐ MTSS /TIMER ON
㉒ [AUTO REPEAT] Buttons: ⊏ / ⊐
㉓ [▼OPEN] Button
㉔ Tape Transport Mode Indicators
㉕ Woofer Speakers
㉖ [■STOP] Button
㉗ [●RECORD] Button
㉘ [◀◀REW/REVIEW] Button
㉙ [▶PLAY] Button
㉚ [▶▶FF/CUE] Button
㉛ [IIPAUSE/EDITOR] Button
㉜ [VOLUME] Buttons: UP/DOWN
㉝ [MTSS] (AUTO REPEAT) Buttons: SET/RESET
㉞ Remote Control Button Indicator
㉟ Tape Counter/Counter Reset Button
㊱ [TIMER] Switch: ⊏RECORD/⊐PB
㊲ [⊏ON–⊐STAND BY/SLEEP] Switch:

Note: In the ⊐ STAND BY/SLEEP position the mains power will still be supplied. Therefore, when not in use unplug the cord from the socket.

㊳ [SPEAKER] Jacks
㊴ Telescopic Antennas
㊵ [LINE OUT] Jacks
㊶ [AUX/PHONO] Jacks
㊷ [MIC] Jacks
㊸ [PHONO ⏚] Terminal
㊹ Batteries Compartment
㊺ DIN Jack
㊻ [AC POWER] Socket
㊼ [DC 12-15 V] Jack

2. DISASSEMBLY INSTRUCTIONS

■ FRONT CABINET REMOVAL

1. Remove six knobs Ⓐ from the front of cabinet. (Figure 5)
2. Remove seven screws Ⓑ (3ϕ x 35 mm) from the rear of cabinet. (Figure 4)
   Open the Cassette Lid by pressing the open button.
3. Remove the connectors from the speaker terminals and the front cabinet.

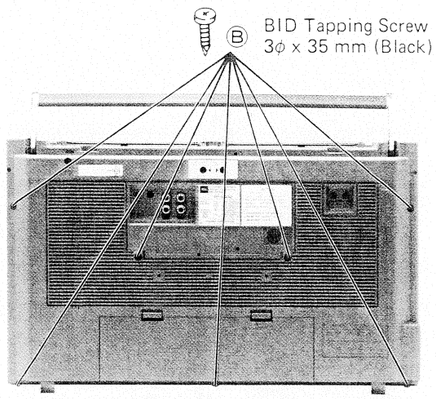


Figure 4

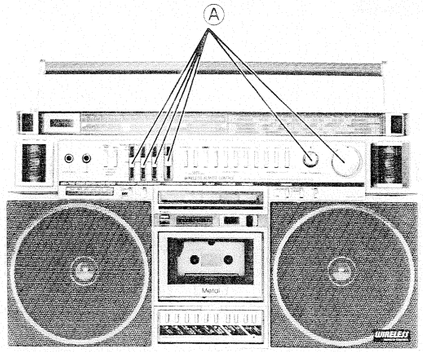


Figure 5

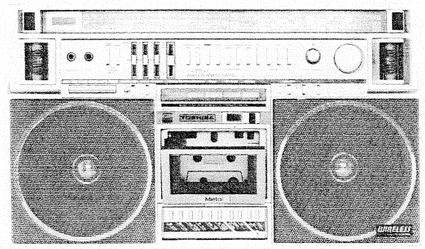


Figure 6

■ MECHANISM ASSEMBLY REMOVAL

1. Remove six screws Ⓒ (3ϕ x 35 mm), Ⓓ (3ϕ x 12 mm) and Ⓔ (3ϕ x 8 mm). (Figure 7)
2. Remove three connectors from the P.C. Board and the mechanism assembly can be removed.

■ POWER P.C. BOARD REMOVAL

1. Remove four screws Ⓕ (4ϕ x 12 mm) and the power P.C. Board can be removed from the back cabinet. (Figure 7).

■ MAIN, CONTROL AND TONE CONTROL P.C. BOARDS REMOVAL

1. Remove one screw Ⓔ. (Figure 7)
2. Remove two screws Ⓖ (3ϕ x 12 mm) and pull out the P.C. Boards frontward. (Figure 7)

■ CONTROL P.C. BOARD REMOVAL

1. Remove four screws Ⓗ (3ϕ x 6mm), and restore two hooks Ⓛ, and disconnect the two connectors. (Figure 7)
2. Separate the control P.C. Board from the Main P.C. Board.

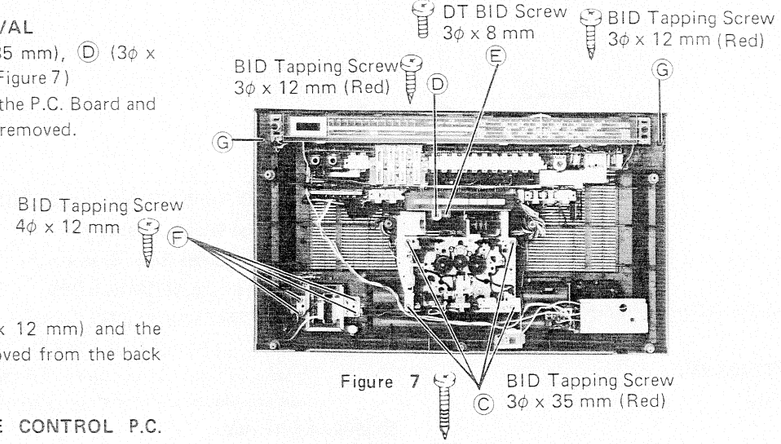


Figure 7

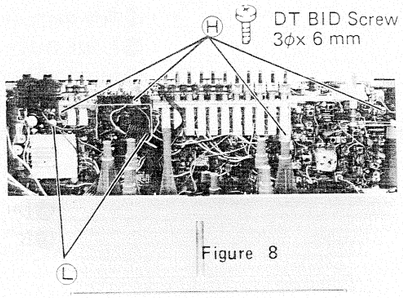


Figure 8

■ DINE JACK P.C. BOARD REMOVAL

1. Remove one screws Ⓘ (3ϕ x 6 mm) and the Dine Jack P.C. Board can be removed.

■ TONE CONTROL P.C. BOARD REMOVAL

1. Removal two screws Ⓙ (3ϕ x 6 mm) and the tone P.C. Board can be removed. (Figure 10)

■ REMOTE CONTROL RECEIVER P.C. BOARD REMOVAL

1. Remove two screws Ⓚ (3ϕ x 10 mm). (Figure 10)
2. Remove the screw Ⓒ (3ϕ x 35 mm) to detach the mounting bracket for the infrared receiving P.C. Board from the mechanism assembly.
3. Furthermore, remove the connector from the control P.C. Board, and the remote control receiver P.C. Board can be removed.

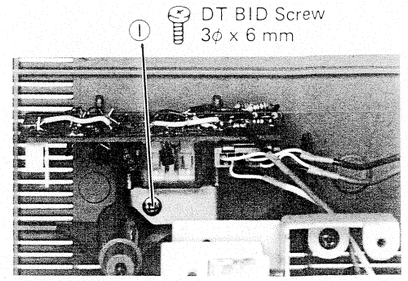


Figure 9

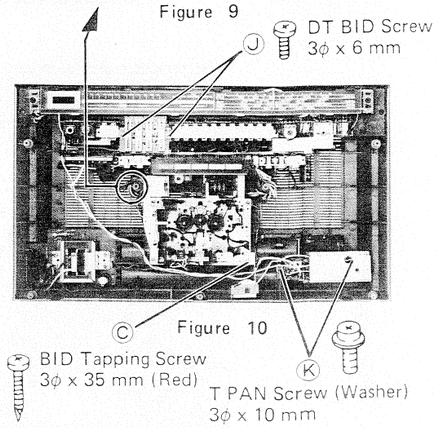


Figure 10

■ REMOTE CONTROL TRANSMITTER REPAIRING

1. Remove the remote control transmitter from the unit.
2. Push the function buttons and confirm the transmitter operates correctly.
3. When repairing the P.C. Board, proceed repairing after removing two screws Ⓜ (2.6ϕ x 8 mm) to detach the rear cover of the transmitter. (Figure 12)

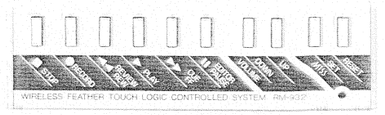


Figure 11

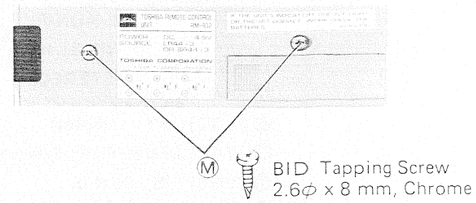


Figure 12

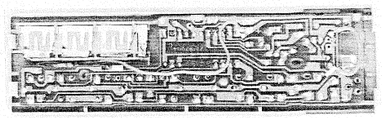


Figure 13

3. MOTOR PULLEY REPLACEMENT

■ **MOTOR PULLEY INSTALLATION**

When installing the pulley to the motor, keep the clearance (2 mm) as shown below. Apply a little adhesive, LOCKTITE 601 (Code No. 22 964 085) into the head of the pulley to fix the pulley with the motor.

Note: Never apply a drop of adhesive on the part Ⓐ not to fix the motor.

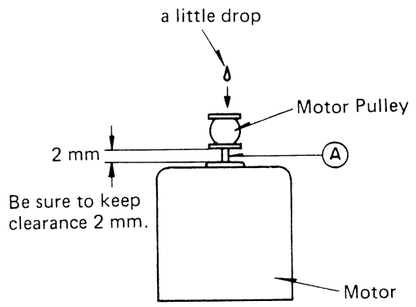


Figure 14

4. HANDLE REMOVAL

■ **HANDLE HOLDER REPLACEMENT**

To replace the handle holder, detach the handle axis in the direction of Ⓐ, turn it in Ⓑ and pull it out in Ⓒ to remove the handle holder.

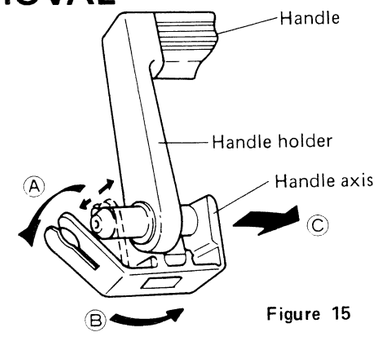
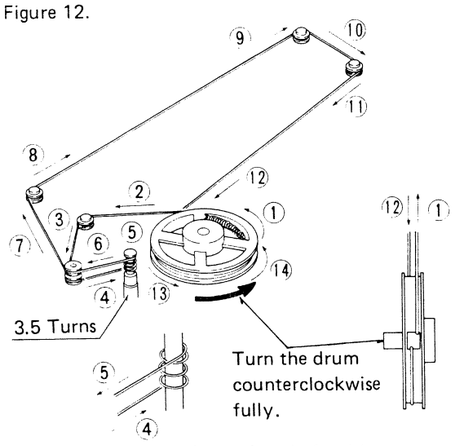


Figure 15

5. DIAL CORD RESTRINGING

■ **DIAL CORD RESTRINGING**

1. Thread the dial cord through the hole of the drum shown in Figure 14.
2. Wind the dial cord in numerical order shown in Figure 12.



Note: Wind the cord on the tuning shaft with care not to turn the unit over.

Figure 16

3. Hook the spring on the drum shown in Figure 14.
4. After restringing the dial cord, turn the drum counterclockwise fully and then set the pointer at "0" point on the scale.

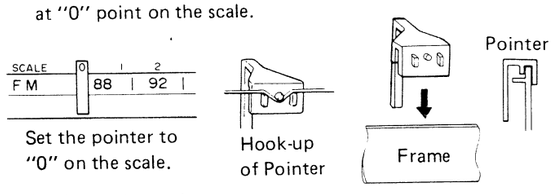


Figure 17

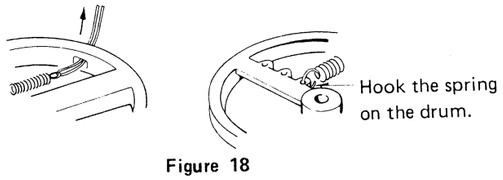


Figure 18

6. BLOCK DIAGRAM

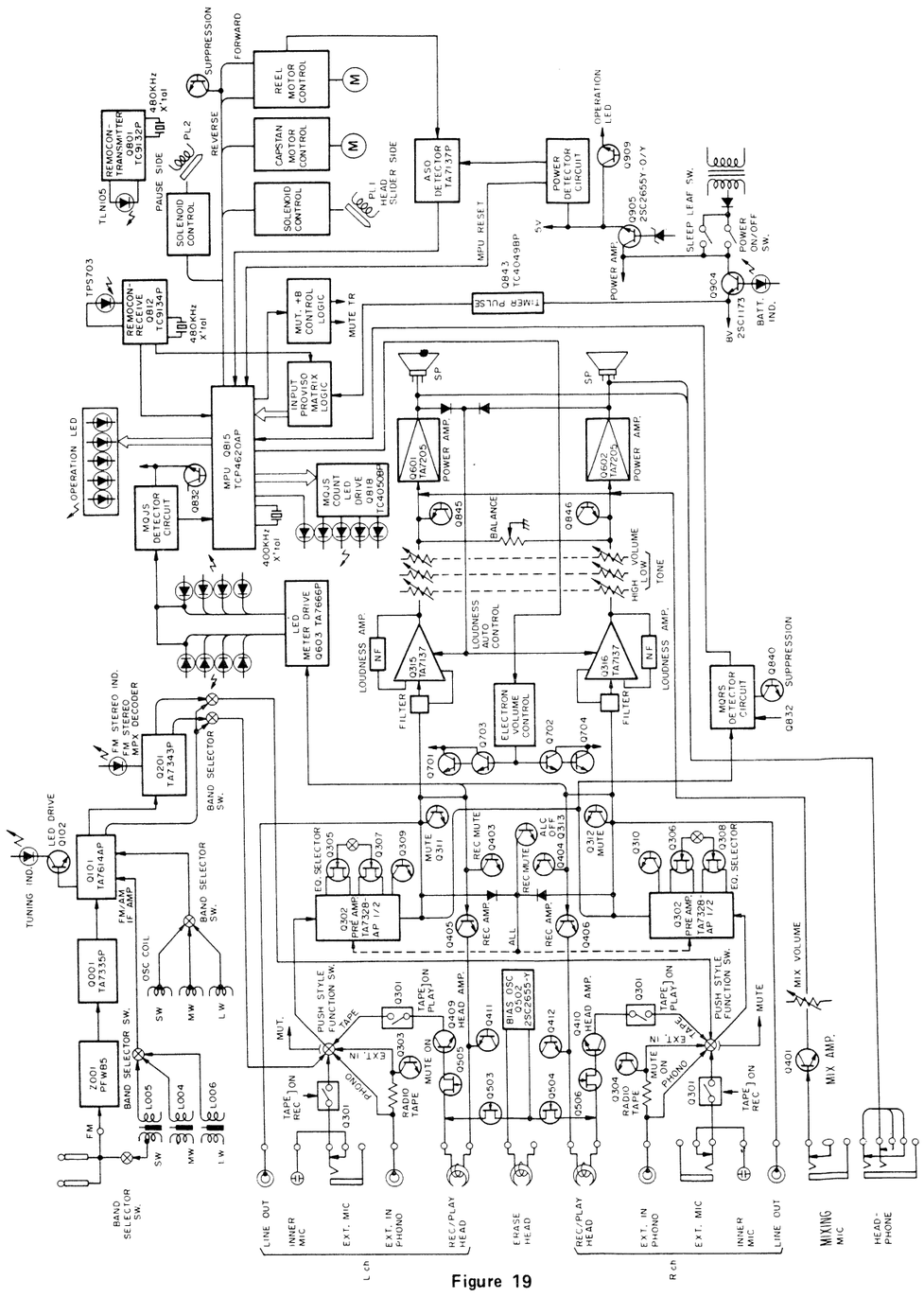


Figure 19

7. ADJUSTMENTS INSTRUCTIONS

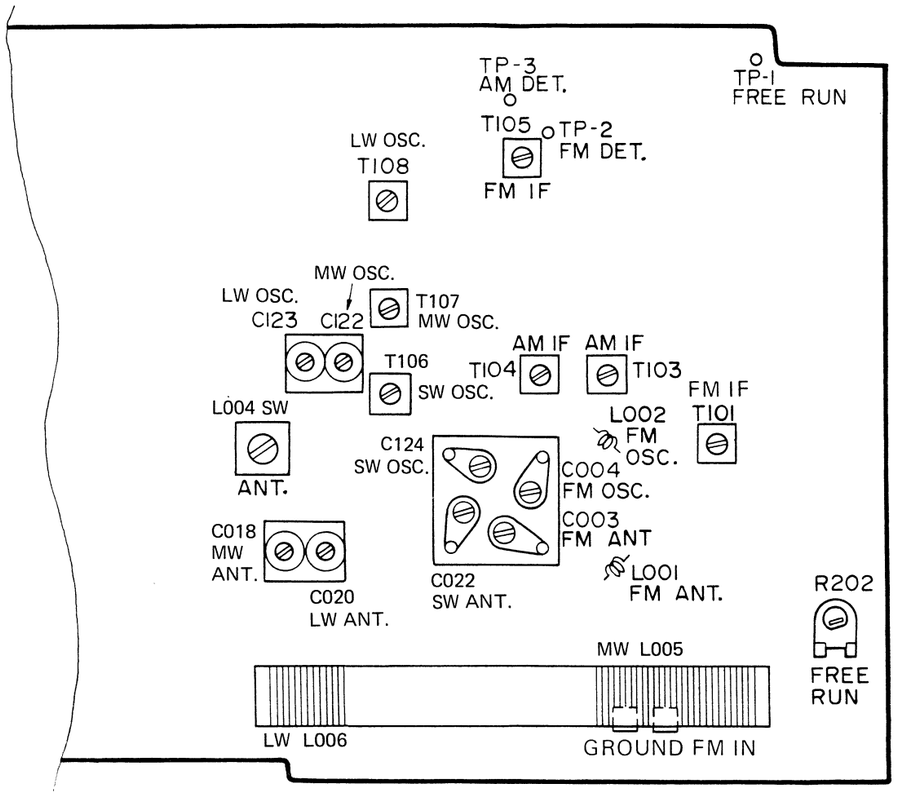


Figure 20

TEST EQUIPMENT

1. Signal generator with a frequency range of at least from 140 kHz to 23 MHz AM.
2. Oscilloscope with a wide range amplifier of approximately 100 kHz.
3. Test loop – a coil of any size wire, one turn or more. (LW & MW)
4. A 30-ohm dummy antenna. (SW)
5. VTVM.

AM ALIGNMENT

1. Turn on the AM signal generator and the VTVM allowing a fifteen-minute warm-up period.
2. Using the test loop across the output of the signal generator, inductively connect the signal generator to the radio.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set signal generator frequency as listed in ALIGNMENT CHART and maintain a sufficient output level to provide an indication on VTVM.
5. Set volume control at mid-position.
6. Proceed as outlined in the IF-LW, MW and SW ALIGNMENT CHART.

MW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
IF	1	460 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	T103, T104	Adjust for maximum indication.
MW	2	510 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil T107	Adjust for maximum indication.
	3	1650 kHz	Tuning Gang Fully clockwise (Highest Frequency)	OSC. Trim C122	Adjust for maximum indication.
	4	Repeat steps 2 and 3 as required.			
	5	600 kHz	Tune to Signal.	Ant. Coil L005	Adjust for maximum indication.
	6	1400 kHz	Tune to Signal.	Ant. Trim. C018	Adjust for maximum indication.
	7	Repeat steps 5 and 6 as required.			

LW/SW ALIGNMENT CHART

Band	Step	Signal Generator Frequency	Radio Dial Setting	Adjustment	Remarks
LW	1	142 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil T108	Adjust for maximum indication.
	2	280 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C123	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	160 kHz	Tune to Singal.	Ant. Coil L006	Adjust for maximum indication.
	5	280 kHz	Tune to Signal.	Ant. Trim. C020	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			
SW	1	5.75 kHz	Tuning Gang Fully Counter-clockwise (Lowest Frequency)	OSC. Coil T106	Adjust for maximum indication.
	2	16 kHz	Tuning Gang Fully Clockwise (Highest Frequency)	OSC. Trim. C124	Adjust for maximum indication.
	3	Repeat steps 1 and 2 as required.			
	4	6.5 kHz	Tune to Signal.	Ant. Coil L004	Adjust for maximum indication.
	5	14 kHz	Tune to Signal.	Ant. Trim. C022	Adjust for maximum indication.
	6	Repeat steps 4 and 5 as required.			

FM-IF ALIGNMENT

1. Set the select switch to FM position.
2. Turn on both sweep generator and oscilloscope, and allow a fifteen-minute warm-up period.
3. Connect the RF SWEEP SIGNAL OUTPUT from the signal generator through the loop antenna to the receiver.
4. Connect the oscilloscope vertical input directly to the test point TP-2 FM and connect the shielded lead to the GND.
5. Connect the SWEEP VOLTAGE OUTPUT of the sweep generator to the oscilloscope.
6. Proceed as outlined in the FM-IF ALIGNMENT CHART.

FM-IF ALIGNMENT CHART

Step	Signal coupling	Equip.	Tuning	Connection	Adjust. point	Pattern
1	Connect sweep generator output to a three-turn loop antenna of 10cm diameter.	Sweep generator of 10.7 MHz center freq. with 10.7 MHz marker.	Tuning Knob fully counter-clockwise (Lowest Frequency.)	Set scope for connecting output signal from TUN OUT to vertical axis of scope "V" and sweep generator output to horizontal axis "H".	T101 T105	Turn the coil L105 fully counterclockwise to obtain a single peak. Fig. 23. Adjust coil L101 in order until the best single peak is obtained. Finally turn the coil L105 to obtain S curve. See Figure 24.

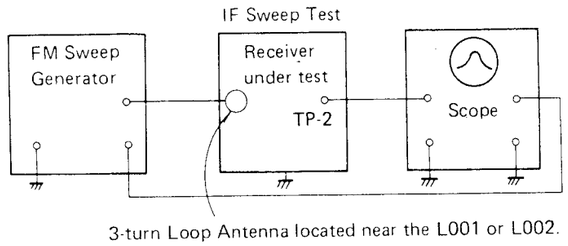


Figure 21

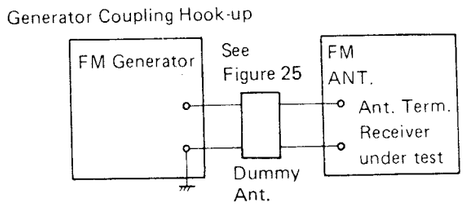


Figure 22

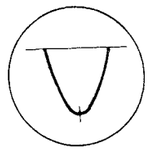


Figure 23

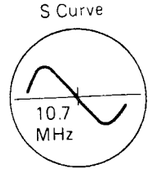


Figure 24

FM-RF ALIGNMENT

1. Turn on the signal generator and the VTVM, and allow a fifteen-minute warm-up period.
2. Connect the signal generator output through a 75 ohm dummy antenna across FM ANT.
3. Connect the VTVM across the voice coil or a 3.2 ohm dummy load.
4. Set the volume control to mid-position.
5. Adjust the signal generator frequency as indicated in FM-RF ALIGNMENT CHART, and maintain a sufficient signal output level to provide a measurable indication.
6. Proceed as outlined in the FM-RF ALIGNMENT CHART.

FM-RF ALIGNMENT CHART

Step	Signal Generator	Radio Dial Setting	Adjustment	Remarks
1	87.5 MHz	Tuning Knob fully Counterclockwise (Lowest Frequency)	OSC. Coil L002	Adjust for maximum output indication
2	108 MHz	Tuning Knob fully Clockwise (Highest Frequency)	OSC. Trim. C004	Adjust for maximum output indication
3	Repeat steps 1 and 2 as required.			
4	90 MHz	Tune to signal	Ant. Coil L001	Adjust for maximum output indication
5	106 MHz		Ant. Trim. C003	
6	Repeat steps 4 and 5 as required.			

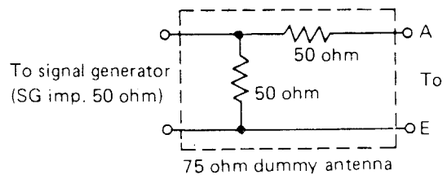


Figure 25

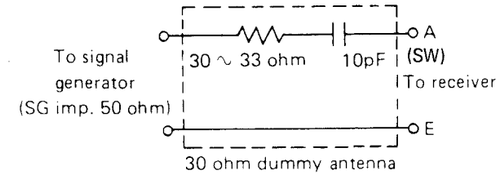


Figure 26

FREE RUN FREQUENCY ALIGNMENT

Adjust R202 under no signal condition so as to obtain 38 kHz ±75 Hz.

RECORD/PLAYBACK HEAD ADJUSTMENT

A 6.3 kHz standard tape must be used for this adjustment. Connect a VTVM or an oscilloscope to the EXT Speaker jack and adjust the azimuth by using a philips screwdriver to maintain the maximum output voltage.

Caution in R/P Head Replacement (Figure 27)

Losseness of the R/P head mounting hole and screw may cause clearance between the head and tape as shown in figure (A). In this case, MQJS function does not operate correctly. Therefore, adjust and fasten the screw by pushing the R/P head in the arrow direction as shown in figure (B). Do not proceed to adjsut the head as shown in figure (C).

CAUTION:

When realigning the FM Receiving Frequency, the highest end of the frequency range should not be more than 108 MHz and the lowest end of the frequency range should not be less than 87.5 MHz, in order to comply with FTZ regulations in West Germany.

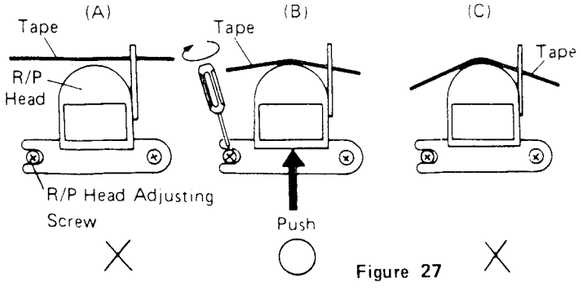


Figure 27

8. ELECTRICAL PARTS LOCATIONS (MAIN)

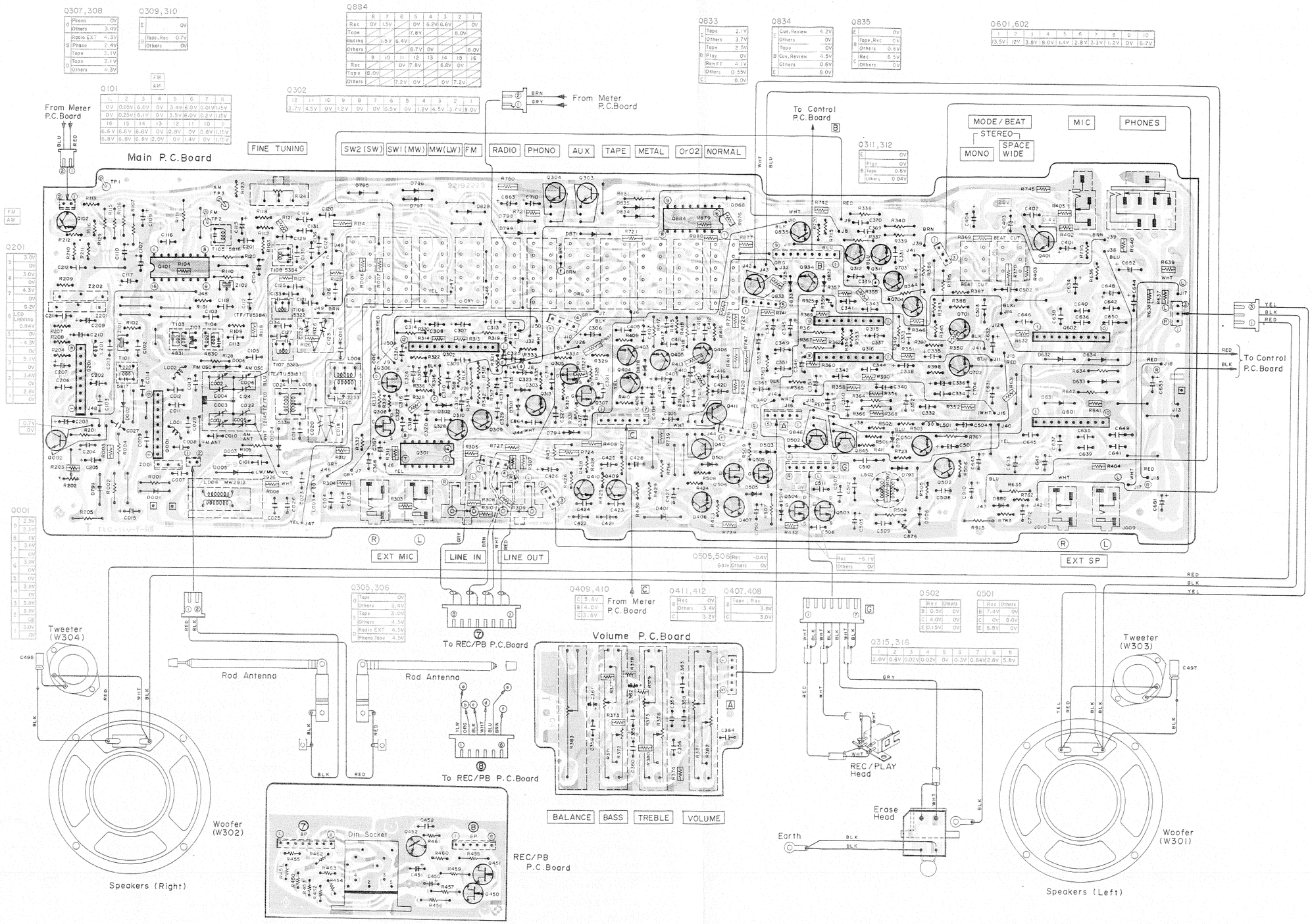
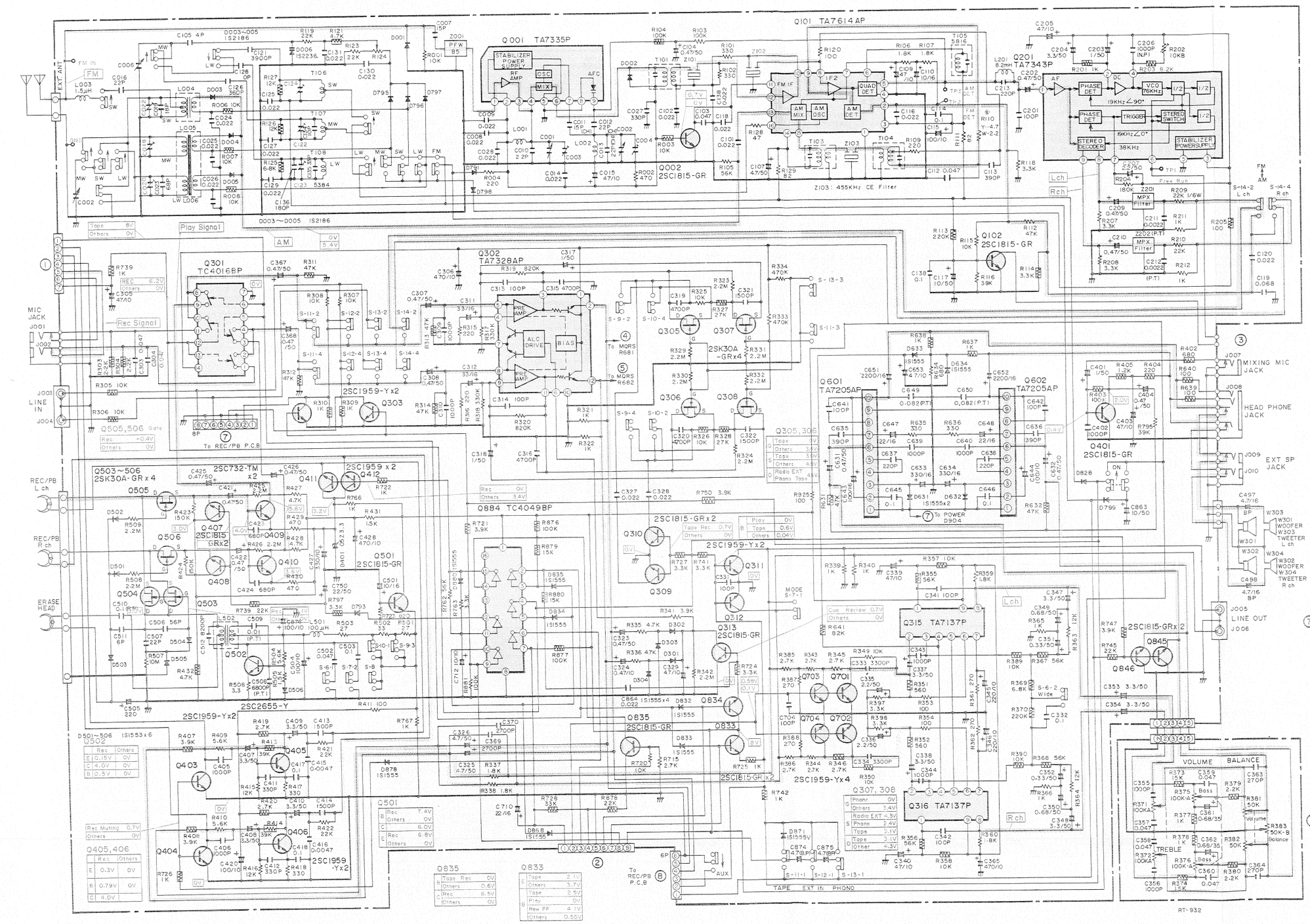


Figure 28

9. SCHEMATIC DIAGRAM (MAIN)



Q001

1	3.0V	
	0V	
2	3.8V	
	0V	
3	3.8V	
4	3.8V/0V	
5	0V	
6	3.8V	
	0V	
7	3.6V	
	0V	
8	0V	
	2.5V	
9	2.5V	

Q101

1	0V	6.6V	16
2	0.05V	6.8V	15
	0.25V	6.6V	
3	6.0V	6.8V	14
	6.1V	6.6V	
4	0V	6.8V	13
		0V	
5	3.4V	2.0V	12
6	3.5V	0.8V	11
	6.0V	0V	
7	6.0V	0V	10
	0.01V	1.4V	
	0.2V	0.8V/0V	
8	1.15V	1.15V	9
	1.15V	1.15V	

Q201

1	2.8V	3.0V	9
	0V	0V	
2	3.6V	3.0V	8
	0V	0V	
3	5.1V	4.3V	7
		0V	
4	4.3V		6
	0V	LED Lighting 0.84V	
5	0V	6.2V	5

Q884

	Tape	8.0V	16
	Rec	0V	
2	Tape	8.0V	15
3	Rec	6.6V	14
4	Rec	6.2V	13
	Others	0V	
	Others	7.8V	
5	Rec	0V	12
	Others	6.7V	
6	Muting	6.4V	11
7	Rec Muting	1.5V	10
8		0V	9

	Rec	0V	
	Others	0V	
	Tape	7.8V	
	Others	0V	
	Others	7.2V	
	Rec	0V	
	Others	0V	
	Rec	7.8V	
	Others	0V	

2SK30A Q302

1	8.0V	3.7V	12
2	3.7V	4.5V	11
3	4.5V	0V	10
4	11.2V	1.2V	9
5	0V	0V	8
6	0.5V	0V	7

Q315,Q316

1	2.0V		
2	0.6V	5.8V	9
3	0.02V	2.6V	8
4	0.02V	0.64V	7
5	0V	0.3V	6

2SC1815
2SC1959
2SC732

Q305,Q306

G	Tape	0V
	Others	3.4V
S	Tape	3.0V
	Others	4.5V
D	Radio,EXT Phono,Tape	4.5V

2SC2655

Q601,Q602

1	13.5V	6.7V	10
2	12V	0V	5
3	3.8V	1.2V	8
4	8.0V	3.3V	7
5	1.4V	2.8V	6

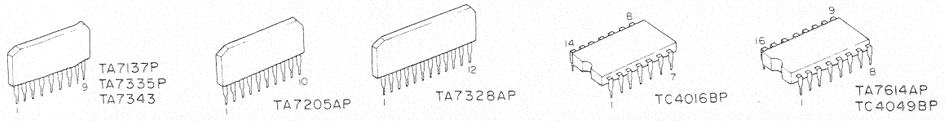


Figure 29

CAUTION:
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replace only with types identical to those in the original circuit or specified in the parts list.

10. ELECTRICAL PARTS LOCATIONS (CONTROLS)

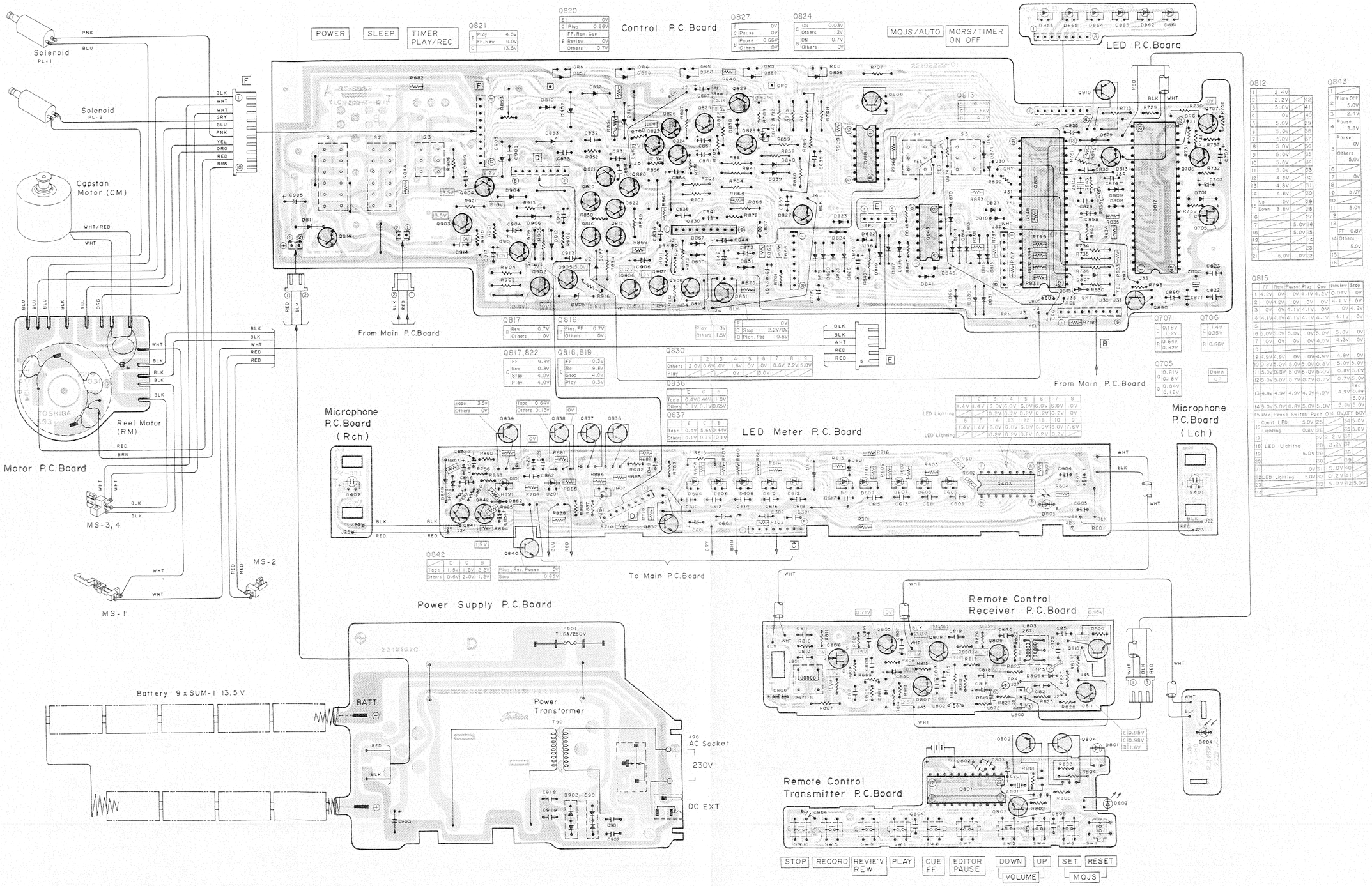


Figure 30

11. SCHEMATIC DIAGRAM (CONTROLS)

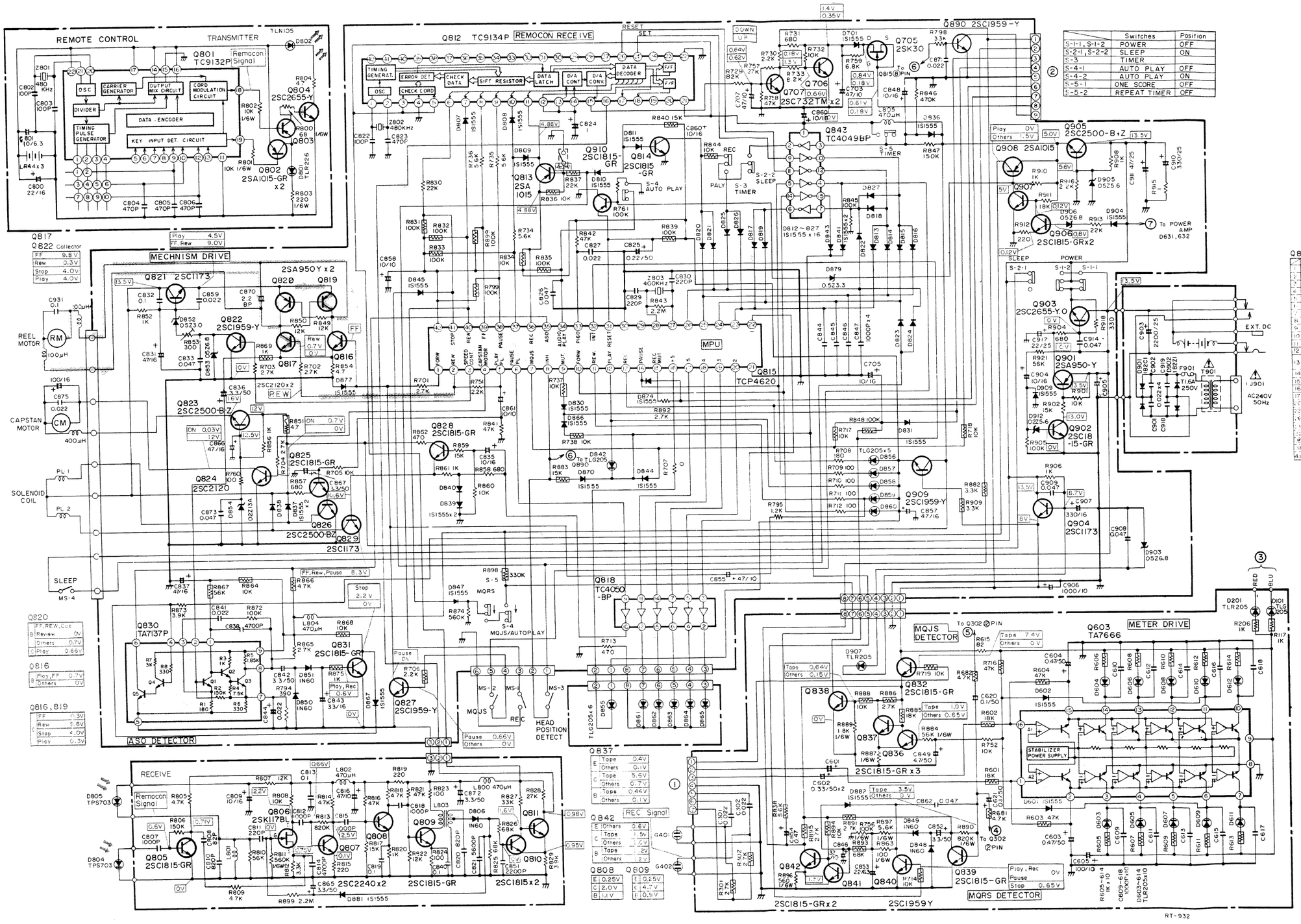


Figure 31

CAUTION:
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts li st designate components which have special characteristics important for safety and should be replace only with types identical to those in the original circuit or specified in the parts list.

12-1.EXPLODED VIEW MECHANISM (UPPER)

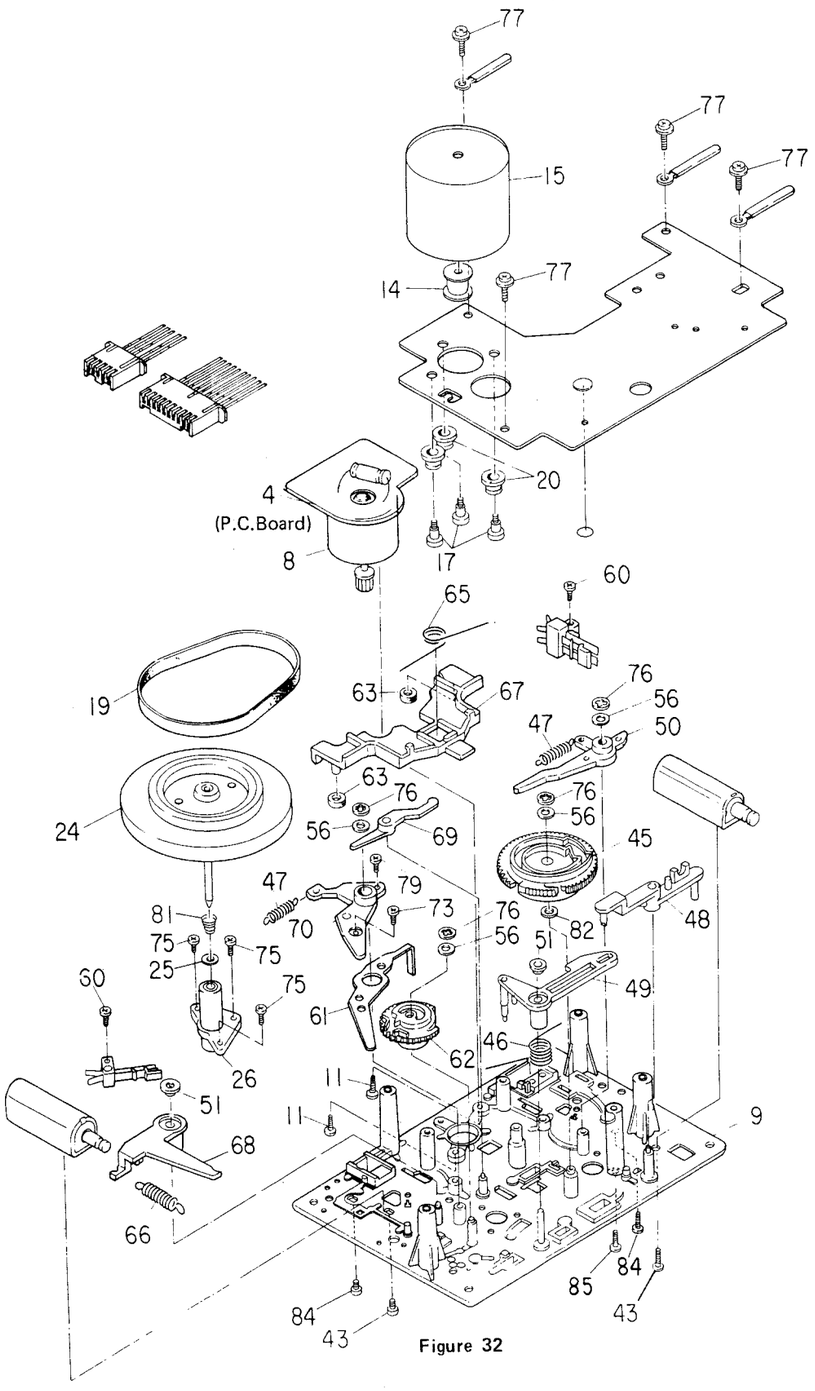


Figure 32

12-2. EXPLODED VIEW MECHANISM(LOWER)

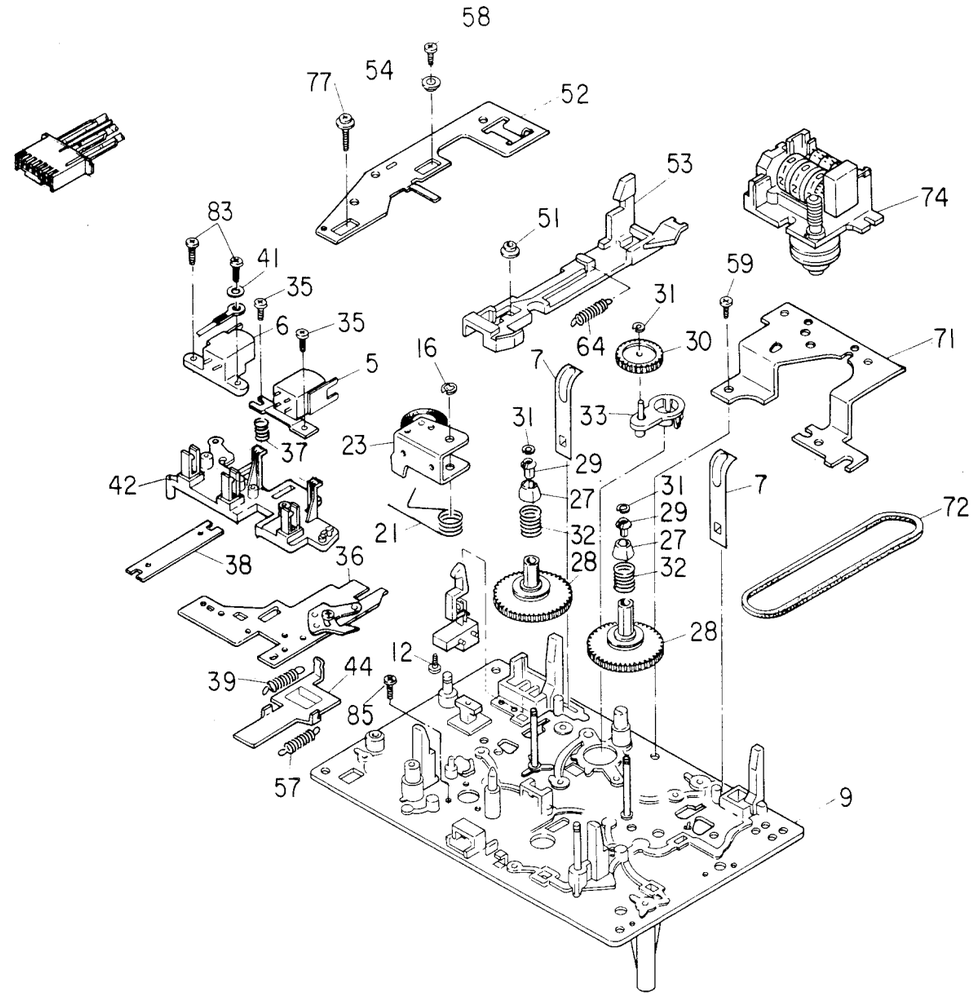


Figure 33

NOTE: Parts excluded in the parts list are not available as replacement parts.

NOTE: Parts excluded in the parts list are not available as replacement parts.

12-3. EXPLODED VIEW (MECHANISM) PARTS LIST

Symbol No.	Part No.	Description
5	22217362	Head, Record/Playback, HRPT-80
6	22218249	Head, Erase, HET-65
8	25791357	Reel Motor Ass'y
9	25791305	Mechanism Chassis Ass'y
11	22701432	Screw, BID Hd., 2.6d x 8mml
12	22707301	Screw, BID Hd., Tapping 2.6d x 8mml
14	25758103	Pulley, Motor
15	22125696	Motor
16	22703118	Retaining Ring, 2mmd
17	22707429	Screw, Special, 2.6d x 1.8mml
19	25755515	Belt, Drive
20	25761238	Cushion, Motor
21	25773526	Spring, Pressure Roller
22	25764593	Washer, Thrust, Flywheel
23	25717470	Pressure Roller
24	25717505	Flywheel Ass'y
25	25764486	Washer
26	25717472	Holder Ass'y, Capstan
27	25754304	Reel Colar
28	25754383	Reel Drum
29	25754384	Capstan Reel
30	25756241	Transfer Gear
31	25766050	Washer, Polyslider, 4mmd
32	25777033	Spring, Reel
33	25713542	Lever, Ass'y, REW
34	25757120	Steel Ball, 3mmd
35	22707766	Screw, DTBID Hd., 2d x 13mml
37	25772240	Spring, Head
38	25779140	Spring, Head Slider
39	25776315	Spring
41	22703318	Washer, 2mmd
42	25783256	Head Mtg. Plate
43	22707475	Screw, BID Hd., 2.6d x 4mml
45	25756244	Cam Gear, Play
46	25773529	Spring, Play Lever
47	25776288	Spring
48	25782414	Lever, Plunger
49	25782415	Lever, Play Lock
50	25782422	Lever, Play
51	25783266	Bushing
53	25782504	Lock Slider
54	25783211	Bushing
56	22703269	Washer, 3mmd
57	25771806	Spring
58	22701245	Screw, BID hd., Tapping 2d x 6mml
59	22707350	Screw, DTBID Hd., 2.6d x 5mml
60	22707368	Screw, DTBID Hd., 2.6d x 10mml
61	25748534	Lever, Pause
62	25756278	Cam Gear, Pause
63	25761459	Cushion, Brake
64	25776404	Spring
65	25773530	Spring
66	25776403	Spring
67	25782416	Slider, Brake
68	25782417	Lever, Pause Lock
69	25782419	Lever, Brake
70	25782420	Lever, Pause
72	25755490	Belt, Counter
74	25873242	Counter
75	25707366	Screw, DTBID Hd., 2.6d x 6mml
76	20798033	Ring
77	22707361	Screw, TPAN Hd., 2.6d x 8mml with Washer
79	22707151	Screw, BID Hd., 2.6d x 5mml
81	25777071	Spring
82	25764597	Washer
83	22707692	Screw, DTBID Hd., 2d x 14mml
84	22707716	Screw, BID Hd., 2.6d x 3.mml, BLK
85	22707426	Screw, DTBID Hd., 2d x 5mml

13-1. EXPLODED VIEW CABINET

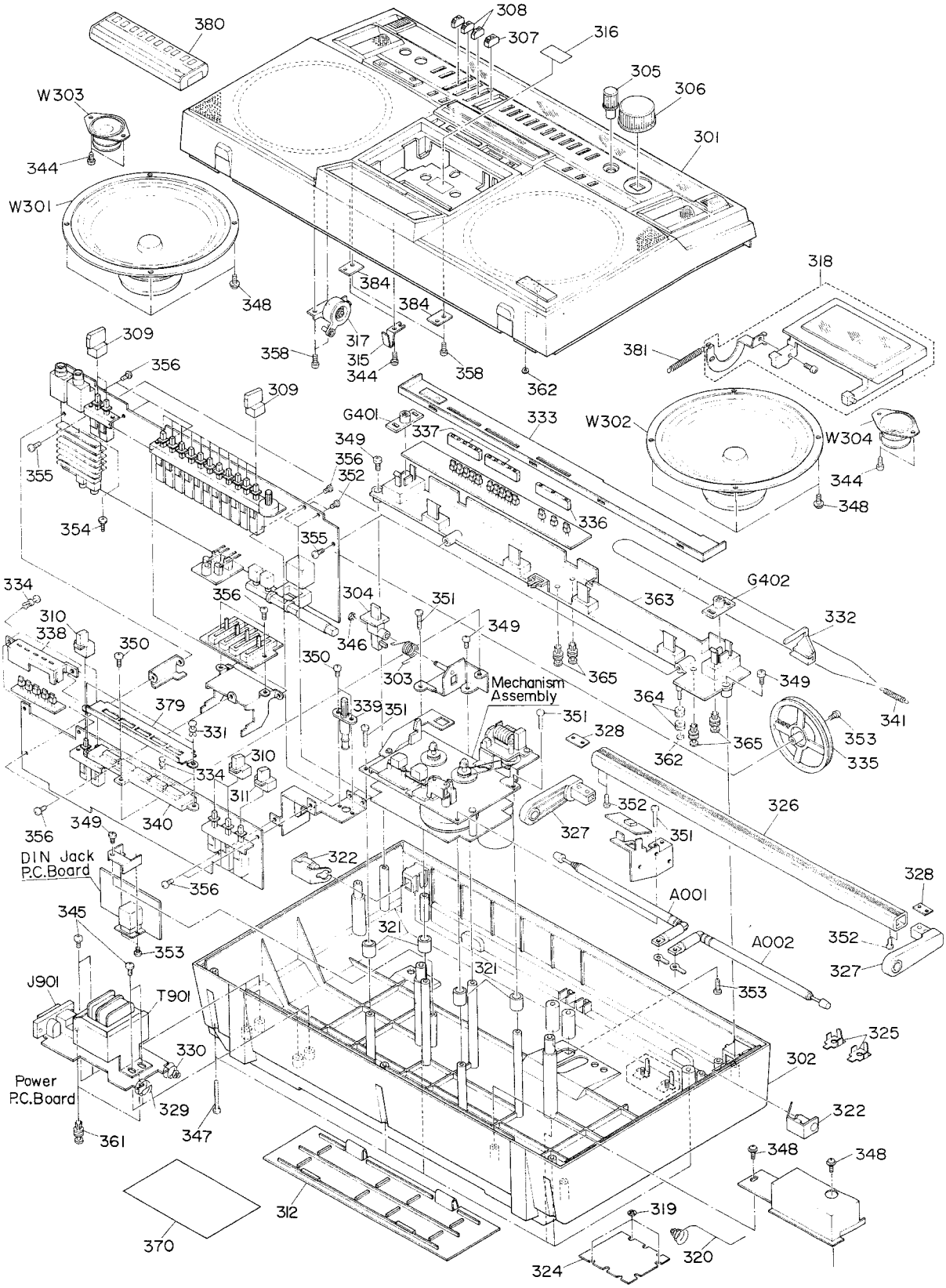


Figure 34

NOTE: Parts excluded in the parts list are not available a replacement parts.

13-2. EXPLODED VIEW (CABINET) PARTS LIST

Symbol No.	Part No.	Description
301	25881431	Front Cabinet Ass'y
302	25881433	Back Cabinet Ass'y
303	25773538	Spring, Eject Lever
304	25837536	Knob, Eject
305	25837598	Knob, Tone
306	25837666	Knob, Tuning
307	25837667	Knob, Slide Resistor
308	25837668	Knob, Slide Resistor
309	25837669	Knob, Push
310	25837670	Knob, Push
311	25837671	Knob, Push
312	25838546	Cover, Battery
315	25779221	Lock Spring
316	25824247	Reflector, Cassette Cover
317	22749313	Damper Ass'y
318	25881225	Cover Ass'y, Cassette
319	22702138	Push Nut, 3mmd
320	25772575	Battery Spring
322	25835444	Handle Shaft
324	25846427	Holder, Battery
326	25835426	Handle
327	25835443	Holder, Handle
328	25846369	Bracket, Handle
329	25772570	Battery Spring
330	25772571	Battery Spring
331	22705020	Plastic Rivet, 3d x 4.5mml
332	22741367	Pointer
333	22749332	Dial Plate Ass'y
334	22705022	Plastic Rivet, 3d x 5.5ml
335	22742201	Dial Drum
336	25844140	Holder, 3P LED
337	25844150	Holder, 5p LED
338	25844170	Holder, MQJS LED
339	22749311	Tuning Shaft Ass'y
340	25844171	Holder, LED
341	25771548	Spring, Drum
342	25881438	Front Case Ass'y, Remote Control
343	25881224	Case Back Ass'y, Remote Control
344	22701326	Screw, BID Hd., Tapping 3d x 8mml
345	22707472	Screw, BID Hd., Tapping 4d x 12mml
346	22703279	Retaining Ring, 3mmd
347	22701334	Screw, BID Hd., Tapping 3d x 35mml, BLK
348	22701434	Screw, TPAN Hd., 3d x 10mml with Washer
349	22707117	Screw, BID Hd., Tapping 3d x 12mml
350	22707520	Screw, DTBID Hd., 3d x 8mml
351	22707767	Screw, BID Hd., Tapping 3d x 35mml, RED
352	22707622	Screw, BID Hd., 2.6d x 8mml
353	22707473	Screw, BID Hd., 2.6d x 6mml
354	22707536	Screw, BID Hd., 3d x 10mml
355	22707118	Screw, BID Hd., Tapping 3d x 12mml
356	22707445	Screw, DTBID Hd., 3d x 6mml
357	22701325	Screw, BID Hd., Tapping 3d x 8mml, BLK
358	22707165	Screw, BID Hd., 3d x 10mml Tapping
361	22705034	Plastic Rivet, 3.5d x 5.5mml
362	22702125	Push Nut, 2.4mmd
363	22714116	Frame
364	22742162	Pulley
365	22742218	Pulley Ass'y
369	25838792	Cover, Battery, Remote Control
370	25808219	Nameplate, Main, TE, TU
370	25808416	Nameplate, Main, IT
371	25808424	Nameplate, Remote Control
375	25779216	Battery Spring, Remote Control
376	25779215	Battery Spring, Remote Control
379	25808037	Decoration Plate, LED Operation
380	22120065	Remote Control Unit
381	25776405	Spring

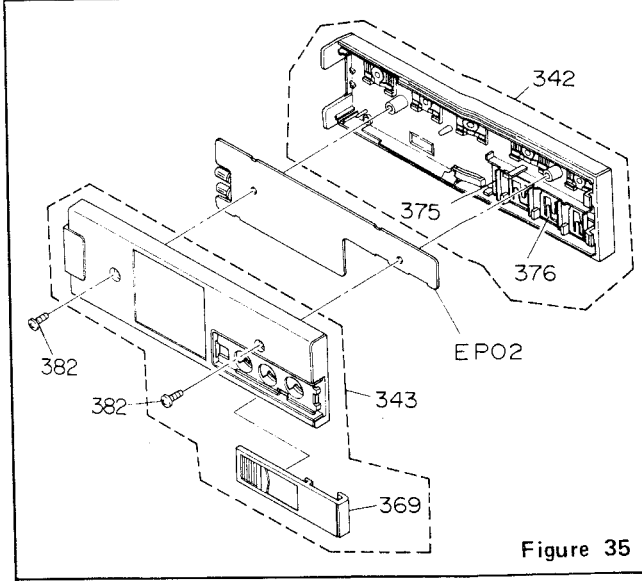


Figure 35

14. PARTS LIST

CAUTION:
The ⚠ mark, the symbol No. circled with rectangle in the schematic diagram and the shaded area in the parts list designate components which have special characteristics important for safety and should be replace only with types identical to those in the original circuit or specified in the parts list.

Symbol No.	Part No.	Description
TRANSISTORS, ICS & DIODES		
Q001	B0325270	IC, TA7335P
Q002	A6317460	Transistor, 2SC1815NEW-GR
Q101	B0355431	IC, TA7614AP-Y
Q102	A6317460	Transistor, 2SC1815NEW-GR
Q201	B0325350	IC, TA7343P
Q301	B0470162	IC, TC4016BP
Q302	B0325125	IC, TA7328AP
Q303, 304	A6319300	Transistor, 2SC1959NEW-Y
Q305, 306	A6048370	Transistor, 2SK30A-TM-GR
Q307, 308		
Q309, 310	A6317460	Transistor, 2SC1815NEW-GR
Q311, 312	A6319300	Transistor, 2SC1959NEW-Y
Q313	A6317460	Transistor, 2SC1815NEW-GR
Q315, 316	B031251A	IC, TA7137P-ST-Y
Q401	A6317460	Transistor, 2SC1815NEW-GR
Q403, 404	A6319300	Transistor, 2SC1959NEW-Y
Q405, 406	A6733140	Transistor, 2SC1815NEW-GR
Q407, 408	A6317460	Transistor, 2SC1815NEW-GR
Q409, 410	A6733140	Transistor, 2SC732TMNEW-BL
Q411, 412	A6319300	Transistor, 2SC1959NEW-Y
Q450, 451	A6048310	Transistor, 2SK30A-TM-R
Q452	A6317460	Transistor, 2SC1815NEW-GR
Q501	A6317460	Transistor, 2SC1815NEW-GR
Q502	A6333320	Transistor, 2SC2655-Y
Q503 to Q506	A6048370	Transistor, 2SK30A-TM-GR
Q601, 602	B0319230	IC, TA7205AP
Q603	B0356660	IC, TA7666P
Q701 to Q704	A6319300	Transistor, 2SC1959NEW-Y
Q705	A6048370	Transistor, 2SK30A-TM-GR
Q706, 707	A6733140	Transistor, 2SC732TMNEW-BL
Q801	B0411320	IC, TC9132P
Q802, 803	A6534060	Transistor, 2SA1015-GR
Q804	A6333320	Transistor, 2SC2655-Y
Q805	A6317460	Transistor, 2SC1815NEW-GR
Q806	A6041880	Transistor, 2SK117-BL
Q807, 808	A6325845	Transistor, 2SC2240NEW-BL
Q809 to Q811	A6317460	Transistor, 2SC1815NEW-GR
Q812	B0411340	IC, TC9134P
Q813	A6534060	Transistor, 2SA1015-GR
Q814	A6317460	Transistor, 2SC1815NEW-GR
Q815	22117085	IC, TCP4620AP-4111
Q816, 817	A6321240	Transistor, 2SC2120-Y
Q818	B0470504	IC, TC4050BP
Q819	A6532940	Transistor, 2SA950-Y
Q820	A6319300	Transistor, 2SC1959NEW-Y
Q821	A677165D	Transistor, 2SC1173-Y
Q822	A6532940	Transistor, 2SA950-Y
Q823	A6330425	Transistor, 2SC2500-B, Z
Q824	A6321240	Transistor, 2SC2120-Y
Q825	A6317460	Transistor, 2SC1815NEW-GR
Q826	A6330425	Transistor, 2SC2500-B, Z
Q827	A6319300	Transistor, 2SC1959NEW-Y
Q828	A6317460	Transistor, 2SC1815NEW-GR
Q829	A677165D	Transistor, 2SC1173-Y
Q830	B031251A	IC, TA7137P-ST
Q831 to Q839	A6317460	Transistor, 2SC1815NEW-GR
Q840	A6319300	Transistor, 2SC1959NEW-Y
Q841, 842, Q845, 846	A6317460	Transistor, 2SC1815NEW-GR
Q843	B0470494	IC, TC4049BP
Q884	B0470494	IC, TC4049BP
Q890	A6319300	Transistor, 2SC1959NEW-Y
Q901	A6532940	Transistor, 2SA950-Y
Q902	A6317460	Transistor, 2SC1815NEW-GR
Q903	A6333320	Transistor, 2SC2655-Y
Q904	A677165D	Transistor, 2SC1173-Y
Q905	A6330425	Transistor, 2SC2500-B, Z
Q906, 907	A6317460	Transistor, 2SC1815NEW-GR
Q908	A6534060	Transistor, 2SA1015-GR
Q909	A6319300	Transistor, 2SC1959NEW-Y
Q910	A6534060	Transistor, 2SA1015-GR
D001, 002	A7246703	Diode, 1S1555V
D003 to D005	A7288600	Diode, 1S2186
D006	A7289000	Diode, 1S2236
D101	A8606630	Diode, LED, TLG205
D201	A8603110	Diode, LED, TLR205
D301 to D304	A7246703	Diode, 1S1555V

Symbol No.	Part No.	Description
D401	A7109330	Diode, Zener, 05Z3.3
D501 to D506	A7246601	Diode, 1S1553V
D601, 602	A7246703	Diode, 1S1555V
D603 to D612, 614	A8603110	Diode, LED, TLR205
D631 to D634	A7246703	Diode, 1S1555V
D701, 791, D793	A7246703	Diode, 1S1555V
	A7246703	Diode, 1S1555V
D795 to D799	A7246703	Diode, 1S1555V
D801	A8603121	Diode, LED TLR226
D803	A8610150	Diode, LED TLN105
D804, 805	A8652030	Diode, LED TPS703
D806	22115498	Diode, 1K261UF
D807 to D828	A7246703	Diode, 1S1555V
D830 to D837		
D839 to D845, 847		
D848	22115498	Diode, 1K261UF
D850, 851	22115498	Diode, 1K261UF
D849	22115602	Diode, 1N60
D852	A7109304	Diode, Zener, 05Z3.0-Y
D853	A7110100	Diode, Zener, 05Z6.8
D854	A7287700	Diode, Zener, 02Z13A
D855	A8606630	Diode, LED TLG205
D856	22115705	Diode, LED, LD702R
D857, 858	22115704	Diode, LED, LD702G
D859, 860	22115706	Diode, LED, LD7020
D861 to D865	A8603110	Diode, LED TLR205
D866, 867, D868, 870, D871, 874, D877, 878	A7246703	Diode, 1S1555V
D879	A7109330	Diode, Zener, 05Z3.3
D880 to D882	A7246703	Diode, 1S1555V
⚠ D901	A7682012	Diode, 1B2C1(T)
⚠ D902	A7682052	Diode, 1B2Z1(T)
D904	A7246703	Diode, Zener, 05Z5.6-Z
D905	A7110018	Diode, Zener 05Z5.6
D903, 906	A7109680	Diode, Zener 05Z6.8
D907	A8603110	Diode, LED TLR205
D909	A7246703	Diode, 1S1555V
D912	A7285900	Diode, Zener, 02Z5.6A

Symbol No.	Part No.	Description
COILS & TRANSFORMERS		
L001	22294003	Coil, FM RF
L002	22294016	Coil, FM Oscillator
L003	22291103	Coil, Choke
L004	22282145	Coil, Antenna, SW
L005/006	22242926	Coil, Bar Antenna, LW/MW
T101	22265817	IF Transformer, FM
T103	22264831	IF Transformer, AM
T104	22264830	IF Transformer, AM
T105	22265816	IF Transformer, FM
T106/108	22245384	Coil, Oscillator, LW/SW
T107	22285323	Coil, Oscillator, SW1
L201	22232219	Coil, Choke
L501	22241028	Coil, Choke
L502	22235018	Coil, Oscillator, Tape
L800, 802 L804, 805	22230106	Coil, Choke, 470μH
L801	22245396	Coil, 38 kHz Tuning
L803	22245392	Coil, Tuning
⚠ T901	22224103	Power Transformer
⚠ PL1	22147228	Plunger, Playback
⚠ PL2	22147232	Plunger
ELECTRICAL PARTS		
A001, 002	22124700	Rod Antenna
W301, 302	22152409	Speaker, 180mm Woofer
W303, 304	22152372	Speaker, 40mm Tweeter
Z001	22153121	Filter, FM RF
Z101, 102	22153058	Filter, Ceramic, AM
Z103	22153083	Filter, Ceramic, 460B
Z201, 202	22153078	Filter, MPX
Z801	22153195	Quartz Oscillator
Z802	22153194	Quartz Oscillator
Z803	22153188	Quartz Oscillator
J001, 002	22163666	Jack, 3.5mmd, Ext, Mic.
J003, 004	22163789	Jack, US-4P, Line-in
J007	22163708	Jack, Mic. Mixing
J008	22163744	Jack, 6mmd, Headphone
J009, 010	22163666	Jack, 3.5mmd, Ext, Speaker
⚠ J901	22167876	AC/DC Socket, 2P

Symbol No.	Part No.	Description
G401, 402	22154225	Built-in Microphone, AM-80N
	22167908	DIN Socket, 5P
S(1 to 10)	22195909	Switch, Key, Remote Control
S1-S3	22195908	Switch, Push, Power/Timer, Sleep
S4-S5	22195907	Switch, Push, MQJS/Auto-Repeat
S6-S7	22195906	Switch, Push, Mode/Beat Cut
S8 to 18	22196031	Switch, Push, Radio/Function/Tape Selector
⚠ F901	22144293	Fuse, 1.6A/250V, Time Lug
EP01	22165047	Holder, Fuse
EP02	22167688	Back Cover, Jack

CAPACITORS

Voltage Ratings of Ceramic and Plastic Capacitor are 50V DC unless otherwise noted.
D = ±0.25pF, J = ±5%, K = ±10%, M = ±20%, Z = +80 –20%
ABBREVIATIONS: CD = Ceramic Disk, PF = Plastic Film
EL = Electrolytic

C001, 002, 003, 004, 005, 006, 022, 124	22308426 22308426	Tuning Capacitor with Trimmer
C007	22362150	CD, 15pF, K
C008	22342223	CD, 0.022mfd, Z
C009	22342223	CD, 0.022mfd, Z
C010	22361220	CD, 22pF, J
C011	22360132	CD, 15pF, J, CH
C012	22360134	CD, 22pF, J, CH
C013	22360133	CD, 18pF, J, TH
C014	22342223	CD, 0.022mfd, Z
C015	22483470	EL, 47mfd, 10V
C016	22361220	CD, 22pF, J
C017	22362820	CD, 82pF, K
C018, 020	22309168	Trimmer
C019	22361180	CD, 18pF, J
C023	22362680	CD, 68pF, K
C024	22342223	CD, 0.022mfd, Z
C025, 026	22342223	CD, 0.022mfd, Z
C027	22362331	CD, 330pF, K
C028	22342223	CD, 0.022mfd, Z
C101, 102	22342223	CD, 0.022mfd, Z
C103	22342473	CD, 0.047mfd, Z
C104	22488478	EL, 0.47mfd, 50V
C105	22361409	CD, 4pF, D

Symbol No.	Part No.	Description
C107	22440450	EL, 47mfd, 10V
C109	22440450	EL, 47mfd, 10V
C110	22485100	EL, 10mfd, 16V
C112	22360331	PF, 0.047mfd, M
C113	22349391	CD, 390pF, K
C114	22360333	PF, 0.1mfd, M, 25V
C115	22483101	EL, 100mfd, 10V
C116	22342223	CD, 0.022mfd, Z
C117	22440444	EL, 10mfd, 16V
C118	22342473	CD, 0.047mfd, Z
C119	22360332	PF, 0.068mfd, M, 25V
C120	22342223	CD, 0.022mfd, Z
C121	22321016	PF, 360pF, J
C122, 123	22309155	Trimmer
C125	22342223	CD, 0.022mfd, Z
C126	22321064	PF, 3900pF, J
C127	22342223	CD, 0.022mfd, Z
C128	22321048	PF, 270pF, J
C129	22342223	CD, 0.022mfd, Z
C130, 131	22342223	CD, 0.022mfd, Z
C134	22361100	CD, 10pF, D
C135	22321084	PF, 180pF, J
C136	22362330	CD, 33pF, K
C138	22342223	CD, 0.022mfd, Z
C139	22360333	PF, 0.1mfd, M, 25V
C201	22362101	CD, 100pF, K
C202	22488478	EL, 0.47mfd, 50V
C203	22488109	EL, 1mfd, 50V
C204	22488339	EL, 3.3mfd, 50V
C205	22483470	EL, 47mfd, 10V
C206	22321057	PF, 1000pF, J
C207	22488229	EL, 2.2mfd, 50V
C209	22488478	EL, 0.47mfd, 50V
C210	22488478	EL, 0.47mfd, 50V
C211, 212	22371222	PF, 2200pF, J
C213	22349221	CD, 220pF, K
C301	22342223	CD, 0.022mfd, Z
C302	22342223	CD, 0.022mfd, Z
C303, 304	22360331	PF, 0.047mfd, M
C305	22483470	EL, 47mfd, 10V
C306	22483471	EL, 470mfd, 10V
C307, 308	22468478	EL, 0.47mfd, 50V
C309, 310	22349102	CD, 1000pF, K
C311, 312	22485330	EL, 33mfd, 16V
C313, 314	22362101	CD, 100pF, K
C315, 316	22349472	CD, 4700pF, K
C317, 318	22488109	EL, 1mfd, 50V
C319	22349472	CD, 4700pF, K
C320	22349472	CD, 4700pF, K
C321, 322	22349152	CD, 1500pF, K
C323, 324	22488478	EL, 0.47mfd, 50V
C325, 326	22488479	EL, 4.7mfd, 50V

Symbol No.	Part No.	Description
C327, 328	22342223	CD, 0.022mfd, Z
C329	22483470	EL, 47mfd, 10V
C331	22349101	CD, 100pF, K
C332	22360333	PF, 0.1mfd, M
C333, 334	22349332	CD, 3300pF, K
C335, 336	22488229	EL, 2.2mfd, 50V
C337, 338	22488339	EL, 3.3mfd, 50V
C339, 340	22483470	EL, 47mfd, 10V
C341, 342	22349101	CD, 100pF, K
C343, 344	22349102	CD, 1000pF, K
C345, 346	22483221	EL, 220mfd, 10V
C347, 348	22448339	EL, 3.3mfd, 50V
C349, 350	22480008	EL, 0.68mfd, 50V
C351, 352	22480006	EL, 0.33mfd, 50V
C353, 354	22488339	EL, 3.3mfd, 50V
C355, 356	22349152	CD, 1500pF, K
C357, 358	22360404	PF, 0.047mfd, M
C359, 360	22360404	PF, 0.047mfd, M
C361, 362	22490030	EL, 0.68mfd, 35V
C363, 364	22349271	CD, 270pF, K
C365	22483471	EL, 470mfd, 10V
C367, 368	22488478	EL, 0.47mfd, 50V
C369, 370	22349272	CD, 2700pF, K
C391, 392	22403086	EL, 4.7mfd, 16V, None Polarity
C401	22488109	EL, 1mfd, 50V
C402	22349102	CD, 1000pF, K
C403	22440450	EL, 47mfd, 10V
C404	22440440	EL, 0.47mfd, 50V
C405, 406	22349102	CD, 1000pF, K
C407, 408	22488339	EL, 3.3mfd, 50V
C409, 410	22488339	EL, 3.3mfd, 50V
C411, 412	22362331	CD, 330pF, K
C413, 414	22349152	CD, 1500pF, K
C415, 416	22349472	CD, 4700pF, K
C417, 418	22360333	PF, 0.1mfd, M
C420	22483101	EL, 100mfd, 10V
C421, 422	22488478	EL, 0.47mfd, 50V
C423, 424	22349681	CD, 680pF, K
C425, 426	22468478	EL, 0.47mfd, 50V
C427	22483331	EL, 330mfd, 10V
C428	22483471	EL, 470mfd, 10V
C450, 451	22488339	EL, 3.3mfd, 50V, M
C425	22342223	CD, 22mfd, 50V, Z
C501	22485100	EL, 10mfd, 16V
C502	22372473	PF, 0.047mfd, K
C503	22372683	PF, 0.068mfd, K
C504	22483101	EL, 100mfd, 10V
C505	22483221	EL, 220mfd, 10V
C506	22362560	CD, 56pF, K
C507	22361220	CD, 22pF, J

Symbol No.	Part No.	Description
C508	22371682	PF, 6800pF, J
C509	22371103	PF, 0.01mfd, J
C510	22321210	PF, 0.1mfd, K
C511	22361609	CD, 6pF, D
C512	22321068	PF, 8200pF, J
C601, 602	22440470	EL, 0.33mfd, 50V
C603, 604	22488478	EL, 0.47mfd, 50V
C605	22440462	EL, 100mfd, 10V
C610, 611	22349102	CD, 1000pF, K
C611, 612	22349102	CD, 1000pF, K
C613, 614	22349102	CD, 1000pF, K
C613, 614	22349102	CD, 1000pF, K
C615, 616	22349102	CD, 1000pF, K
C617, 618	22349102	CD, 1000pF, K
C620, 621	22440439	EL, 0.1mfd, 50V
C631, 632	22468478	EL, 0.47mfd, 50V
C633, 634	22485331	EL, 330mfd, 16V
C635, 636	22349391	CD, 390pF, K
C637, 638	22349101	CD, 100pF, K
C639, 640	22349102	CD, 1000pF, K
C641, 642	22362101	CD, 100pF, K
C643, 644	22485101	EL, 100mfd, 16V
C645, 646	22360333	PF, 0.1mfd, M, 25V
C647, 648	22485220	EL, 22mfd, 16V
C649, 650	22372823	PF, 0.082mfd, K
C651, 652	22485222	EL, 2200mfd, 16V
C653	22440450	EL, 47mfd, 10V
C703	22483470	EL, 47mfd, 10V
C704	22349101	CD, 100pF, K
C705	22485100	EL, 10mfd, 16V
C707	22483470	EL, 47mfd, 10V
C710	22440443	EL, 4.7mfd, 50V
C712	22485100	EL, 10mfd, 16V
C750	22485220	EL, 22mfd, 16V
C800	22485220	EL, 22mfd, 16V
C801	22483101	EL, 100mfd, 10V
C802, 803	22362101	CD, 100pF, K
C804, 805	22340173	CD, 470pF, K
C806	22340173	CD, 470pF, K
C807	22349102	CD, 1000pF, K
C808	22362820	CD, 82pF, K
C809	22485100	EL, 10mfd, 16V
C810	22321056	PF, 820pF, J
C811	22349221	CD, 220pF, K
C812	22349102	CD, 1000pF, K
C813	22360333	PF, 0.1mfd, M
C814	22371472	PF, 4700pF, J
C815	22349102	CD, 1000pF, K
C816	22483470	EL, 47mfd, 10V
C818	22349102	CD, 1000pF, K
C819	22360333	PF, 0.1mfd, M
C820	22321056	PF, 820pF, J

Symbol No.	Part No.	Description
C821	22349562	CD, 5600pF, K
C822	22362101	CD, 100pF, K
C823	22349471	CD, 470pF, K
C824	22488109	EL, 1mfd, 50V
C826	22360404	PF, 0.047mfd, M
C827	22342223	CD, 0.022mfd, Z
C829, 830	22349221	CD, 220pF, K
C831	22485470	EL, 47mfd, 16V
C832	22360333	PF, 0.1mfd, M
C833	22342473	CD, 0.047mfd, Z
C835	22485100	EL, 10mfd, 16V
C836	22488339	EL, 3.3mfd, 50V
C837	22485470	EL, 47mfd, 16V
C838	22349472	CD, 4700pF, K
C840	22360333	PF, 0.1mfd, M
C841	22342223	CD, 0.022mfd, Z
C842	22488339	EL, 3.3mfd, 50V
C843	22485330	EL, 33mfd, 16V
C844	22488228	EL, 0.22mfd, 50V
C846	22440449	EL, 33mfd, 10V
C848	22485100	EL, 10mfd, 16V
C849	22440443	EL, 4.7mfd, 50V
C851	22349222	CD, 2200pF, K
C852	22440442	EL, 3.3mfd, 50V
C853	22440451	EL, 22mfd, 6.3V
C854	22440440	EL, 4.7mfd, 50V
C855	22483470	EL, 47mfd, 10V
C857	22485470	EL, 47mfd, 16V
C858	22485100	EL, 10mfd, 16V
C859	22342223	CD, 0.022mfd, Z
C860, 861	22485100	EL, 10mfd, 16V
C862	22360404	PF, 0.047mfd, M
C863	22485100	EL, 10mfd, 16V
C864	22342223	CD, 0.022mfd, Z
C865	22488339	EL, 3.3mfd, 50V
C866	22485470	EL, 47mfd, 16V
C867	22488339	EL, 3.3mfd, 50V
C868	22488109	EL, 1mfd, 50V
C870	22476229	EL,2.2mfd,25VNone Polarity
C871	22342223	CD, 0.022mfd, Z
C872	22488339	EL, 3.3mfd, 50V
C873	22342473	CD, 0.047mfd, Z
C876	22483101	EL, 100mfd, 10V
C874, 875	22403086	EL4.7mfd,16V,None Polarity
C904	22485100	EL, 10mfd, 16V
⚠ C905	22486222	EL, 2200mfd, 25V
C906	22483102	EL, 1000mfd, 10V
C907	22485331	EL, 330mfd, 16V
C908, 909	22342473	CD, 0.047mfd, Z
C910	22486331	EL, 330mfd, 25V
C911	22486470	EL, 47mfd, 25V
C913, 914	22342473	CD, 0.047mfd, Z
C917	22486220	EL, 22mfd, 25V

Symbol No.	Part No.	Description
RESISTORS Resistors are Carbon Film 1/4W, ±5%, unless otherwise noted. K = 1,000, M = 1,000,000		
R001	22545103	10K ohm (PRC)
R002	22545471	470 ohm
R003	22545103	10K ohm (PRC)
R004	22545221	220 ohm
R006	22545103	10K ohm (PRC)
R007	22545103	10K ohm (PRC)
R008	22545103	10K ohm (PRC)
R101, 102	22555331	330 ohm
R103	22555104	100K ohm
R104	22545104	100K ohm (PRC)
R105	22545563	56K ohm
R106, 107	22545182	1.8K ohm
R109	22555221	220 ohm
R110	22543229	W . . . . 2.2 ohm
R110	22543479	Y . . . . 4.7 ohm
R111	22545820	82 ohm
R112	22555473	47K ohm
R113	22555224	220K ohm (PRC)
R114	22555332	3.3K ohm
R115	22545103	10K ohm
R116	22555393	39K ohm
R117	22555102	1K ohm
R118	22555332	3.3K ohm
R119	22555223	22K ohm
R120	22545101	100 ohm
R121	22545472	4.7K ohm (PRC)
R123	22555223	22K ohm
R124	22625420	Variable, 16mmd, 50K Fine Tuning
R125	22545682	6.8K ohm (PRC)
R126	22545123	12K ohm (PRC)
R127	22545123	12K ohm (PRC)
R128	22545470	47 ohm
R129	22545820	82 ohm
R130	22555562	5.6K ohm
R201	22545102	1K ohm (PRC)
R202	22658599	Semi-fixed Variable, 10K ohm Free Run
R203	22545562	5.6K ohm (PRC)
R204	22555184	180K ohm
R205	22543101	100 ohm, 1/8W
R206	22545102	1K ohm (PRC)
R207, 208	22555332	3.3K ohm
R209	22540526	22K ohm, 1/8W
R210	22555223	22K ohm
R211, 212	22555102	1K ohm, 1/4W
R301, 302	22545272	2.7K ohm (PRC)

Symbol No.	Part No.	Description
R303, 304	22545222	2.2K ohm (PRC)
R305, 306	22545103	10K ohm (PRC)
R307	22545103	10K ohm (PRC)
R308	22545103	10K ohm (PRC)
R309, 310	22545102	1K ohm (PRC)
R311, 312	22545473	47K ohm (PRC)
R313, 314	22545473	47K ohm (PRC)
R315	22555221	220 ohm
R316	22545221	220 ohm
R317	22545334	330K ohm
R318	22555334	330K ohm
R319, 320	22545824	820K ohm
R321, 322	22555102	1K ohm
R323, 324	22555225	2.2M ohm
R325	22555103	10K ohm
R326	22545103	10K ohm (PRC)
R327, 328	22545273	27K ohm (PRC)
R329, 330	22555225	2.2M ohm
R331, 332	22555225	2.2M ohm
R333, 334	22555474	470K ohm
R335, 336	22555472	4.7K ohm
R337, 338	22545182	1.8K ohm
R339, 340	22545102	1K ohm
R341	22545392	3.9K ohm
R342	22555225	2.2M ohm
R343, 344	22555272	2.7K ohm (PRC)
R345	22555272	2.7K ohm
R346	22545272	2.7K ohm (PRC)
R349	22545103	10K ohm
R350	22545103	10K ohm (PRC)
R351	22545561	560 ohm (PRC)
R352	22545561	560 ohm (PRC)
R353, 354	22555101	100 ohm
R355, 356	22545563	56K ohm (PRC)
R357, 358	22545103	10K ohm (PRC)
R359, 360	22555182	1.8K ohm
R361, 362	22545271	270 ohm
R363	22555123	12K ohm
R364	22545123	12K ohm
R365	22555102	1K ohm
R366	22545102	1K ohm
R367, 368	22545563	56K ohm (PRC)
R369, 370	22545274	270K ohm (PRC)
R371, 372	22625420	Variable, 50K-B Treble
R373, 374	22545153	15K ohm (PRC)
R375, 376	22657229	Variable, Slide Type 100K ohm, Treble, Bass
R377, 378	22545102	1K ohm (PRC)
R379, 380	22545222	2.2K ohm (PRC)
R381, 382	22657227	Variable, Slide Type 50K ohm, Volume
R383	22657228	Variable, Slide Type 50K ohm, Balance

Symbol No.	Part No.	Description
R385, 386	22545272	2.7K ohm
R387, 388	22555271	270 ohm
R389, 390	22545103	10K ohm (PRC)
R397, 398	22555332	3.3K ohm
R402	22545681	680 ohm (PRC)
R403	22545184	180K ohm (PRC)
R404	22545221	220 ohm (PRC)
R405	22545152	1.5K ohm (PRC)
R407, 408	22545392	3.9K ohm (PRC)
R409, 410	22555562	5.6K ohm
R411	22555101	100 ohm, 1/4W
R450, 451	22555103	10K ohm
R452, 453	22555474	470K ohm
R454, 455	22555102	1K ohm
R456, 457	22543103	10K ohm
R458, 459	22543106	10M ohm
R460	22555105	1M ohm
R461	22555104	100K ohm
R463, 463	22555223	22K ohm
R413, 414	22545393	39K ohm (PRC)
R415, 416	22555123	12K ohm
R417, 418	22545331	330 ohm
R419, 420	22545272	2.7K ohm (PRC)
R421, 422	22545223	22K ohm
R423, 424	22555154	150K ohm
R425, 426	22555225	2.2M ohm
R427, 428	22555472	4.7K ohm
R429, 430	22555471	470 ohm
R431	22555152	1.5K ohm
R432	22545472	4.7K ohm (PRC)
R501	22555270	27 ohm
R502	22555330	33 ohm
R503	22555270	27 ohm
R504	22543562	5.6K ohm1/8W
R505	22555152	1.5K ohm
R506	22555339	3.3 ohm
R507	22543106	10M ohm, 1/8W
R508, 509	22555225	2.2M ohm
R601, 602	22545183	18K ohm (PRC)
R603, 604	22545473	47K ohm (PRC)
R605 to 614	22545102	1K ohm (PRC)
R615	22543820	82 ohm, 1/8W
R617, 618	22545123	12K ohm (PRC)
R631, 632	22545473	47K ohm (PRC)
R634	22545681	680 ohm
R635	22545331	330 ohm
R636	22545331	330 ohm
R637, 638	22545102	1K ohm (PRC)
R639, 640	22545101	100 ohm (PRC)
R641	22545823	82K ohm (PRC)
R642	22545225	2.2M ohm

Symbol No.	Part No.	Description
R681, 682	22555472	4.7K ohm
R683	22555101	100 ohm
R701	22555272	2.7K ohm
R702, 703	22545272	2.7K ohm
R704	22545272	2.7K ohm
R705	22555103	10K ohm
R706	22545222	2.2K ohm (PRC)
R707	22545471	470 ohm
R708	22545181	180 ohm
R709, 710	22545101	100 ohm
R711, 712	22545101	100 ohm
R713	22545471	470 ohm
R714	22545103	10K ohm (PRC)
R715	22555272	2.7K ohm
R716	22545473	47K ohm (PRC)
R717, 718	22545103	10K ohm (PRC)
R719	22545103	10K ohm (PRC)
R720	22555103	10K ohm
R721	22545392	3.9K ohm (PRC)
R722	22545102	1K ohm (PRC)
R723	22555821	820 ohm
R724	22545332	3.3K ohm (PRC)
R725	22545102	1K ohm (PRC)
R727, 728	22545332	3.3K ohm (PRC)
R729	22555823	82K ohm
R730	22545222	2.2K ohm
R731	22555681	680 ohm
R732	22555103	10K ohm
R733	22555822	8.2K ohm
R734	22545562	5.6K ohm
R735, 736	22545562	5.6K ohm
R737, 738	22545103	10K ohm (PRC)
R739	22545223	22K ohm (PRC)
R741	22545332	3.3K ohm (PRC)
R742	22545102	1K ohm (PRC)
R745	22545223	22K ohm
R747	22545392	3.9K ohm (PRC)
R750	22545392	3.9K ohm (PRC)
R751	22555222	2.2K ohm
R752	22540522	10K ohm, 1/8W
R755	22555273	27K ohm
R756	22540534	100K ohm, 1/8W
R757	22555273	27K ohm
R758	22555473	47K ohm
R759	22555682	6.8K ohm
R760	22555101	100 ohm
R761	22555104	100K ohm
R762	22555563	56K ohm
R763	22555332	3.3K ohm
R766, 767	22555102	1K ohm
R779	22545104	100K ohm (PRC)
R794	22555391	390 ohm
R795	22545393	39K ohm
R797	22545339	3.3K ohm (PRC)

Symbol No.	Part No.	Description
R798	22555333	33K ohm
R802	22555103	10K ohm
R803	22555221	220 ohm
R804	22555479	4.7 ohm
R805	22555472	4.7K ohm
R806	22555154	150K ohm
R807	22545123	12K ohm
R808	22555103	10K ohm
R809	22555472	4.7K ohm
R810	22555563	56K ohm
R811	22540543	560K ohm, 1/8W
R812	22555332	3.3K ohm
R813	22555824	820K ohm
R814	22555472	4.7K ohm
R815	22555221	220 ohm
R816	22545473	47K ohm
R817	22555153	15K ohm
R818	22555472	4.7K ohm
R819	22555221	220 ohm
R820	22555102	1K ohm
R821	22555473	47K ohm
R822	22555123	12K ohm
R823, 824	22555101	100 ohm
R825, 826	22555683	68K ohm
R827	22555333	33K ohm
R828	22555273	27K ohm
R829	22555392	3.9K ohm
R830	22545223	22K ohm
R831	22545101	100 ohm (PRC)
R832, 833	22545104	100K ohm (PRC)
R834	22545103	10K ohm (PRC)
R835	22545104	100K ohm (PRC)
R837	22545223	22K ohm (PRC)
R838	22545562	5.6K ohm (PRC)
R839	22545104	100K ohm (PRC)
R840	22545153	15K ohm (PRC)
R841	22545473	47K ohm
R843	22555225	2.2M ohm
R844	22545103	10K ohm (PRC)
R845	22555104	100K ohm
R846	22545474	470K ohm
R847	22555154	150K ohm
R848	22545104	100K ohm (PRC)
R849	22545123	12K ohm
R850	22555123	12K ohm
R851	22547479	4.7 ohm, 1/2W
R852	22555102	1K ohm
R853	22658612	Semi-fixed Variable, 300 ohm
R854	22545479	4.7 ohm
R856	22555102	1K ohm
R857, 858	22545681	680 ohm
R859	22545153	15K ohm
R860	22545103	10K ohm

Symbol No.	Part No.	Description
R861	22545102	1K ohm
R862	22545471	470 ohm
R863	22540498	100 ohm, 1/8W
R864	22545103	10K ohm (PRC)
R865	22545272	2.7K ohm
R866	22545472	4.7K ohm (PRC)
R867	22545563	56K ohm (PRC)
R868	22545103	10K ohm (PRC)
R869	22545102	1K ohm (PRC)
R870	22545223	22K ohm (PRC)
R872	22555104	100K ohm
R873	22545392	3.9K ohm
R874	22545564	560K ohm
R875	22545102	1K ohm (PRC)
R876, 877	22545104	100K ohm (PRC)
R879, 880	22555153	15K ohm (PRC)
R881	22545104	100K ohm
R883	22545332	3.3K ohm (PRC)
R884	22540531	56K ohm, 1/8W
R885	22545183	18K ohm (PRC)
R886	22545272	2.7K ohm (PRC)
R887	22540510	1K ohm, 1/8W
R888	22545103	10K ohm (PRC)
R889	22540513	1.8K ohm 1/8W
R890	22540545	820K ohm 1/8W
R891	22545272	2.7K ohm (PRC)
R892	22555272	2.7K ohm (PRC)
R893	22545683	68K ohm (PRC)
R894	22545103	10K ohm (PRC)
R895	22545272	2.7K ohm (PRC)
R896	22540507	560 ohm, 1/8W
R897	22540519	15K ohm, 1/8W
R898	22545334	330K ohm (PRC)
R899	22555225	2.2M ohm
R901	22555103	10K ohm
R902	22545153	15K ohm
R904	22545681	680 ohm
R905	22545104	100K ohm
R906	22545102	1K ohm
R907	22545563	56K ohm
R908	22555102	1K ohm
R909	22545332	3.3K ohm (PRC)
R910	22555102	1K ohm
R911	22555183	18K ohm
R912	22555221	220 ohm
R913	22545223	22K ohm
R915	22547109	1 ohm, 1/2W
R916	22555222	2.2K ohm
R918	22555331	330 ohm
R921	22545563	56K ohm
R925	22555101	100 ohm

Symbol No.	Part No.	Description
	ACCESSORIES	
AC01	22105357	Demonstration Tape, C-07
⚠ AC02	22176541	Power Supply Cord, TE
⚠ AC02	22176578	Power Supply Cord, TU
AC03	22903421	Owner's Manual